

287

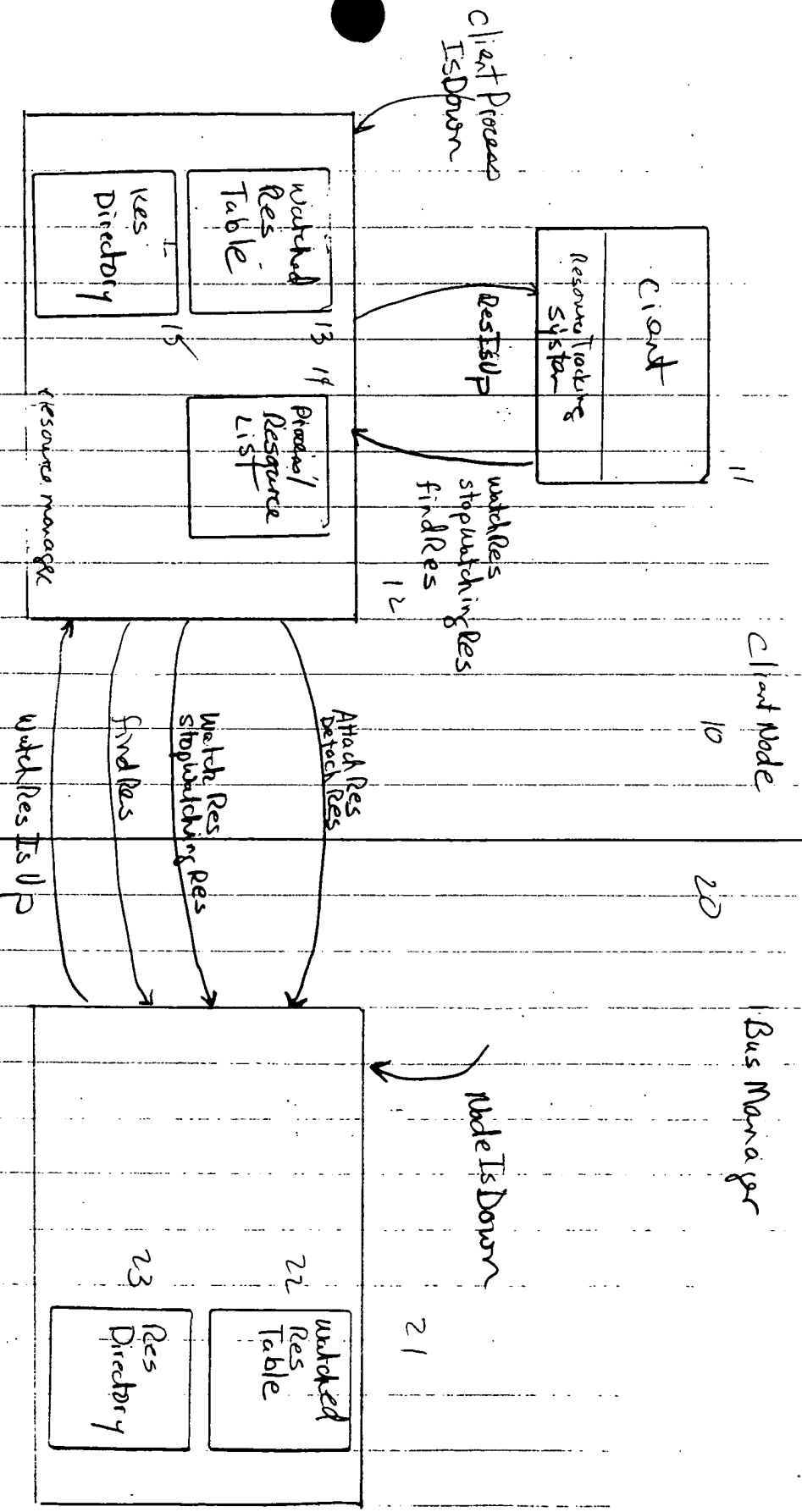


Fig 2B

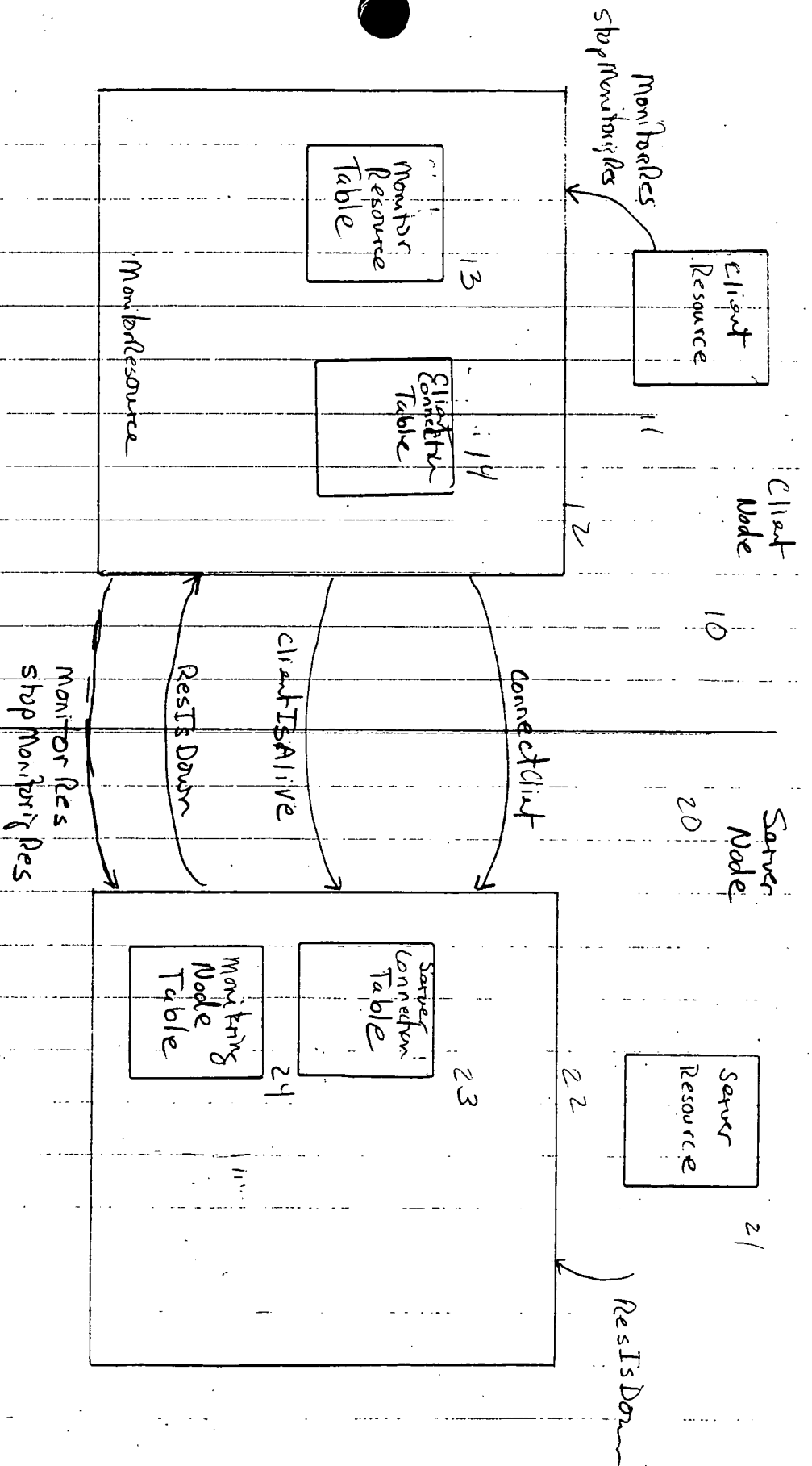
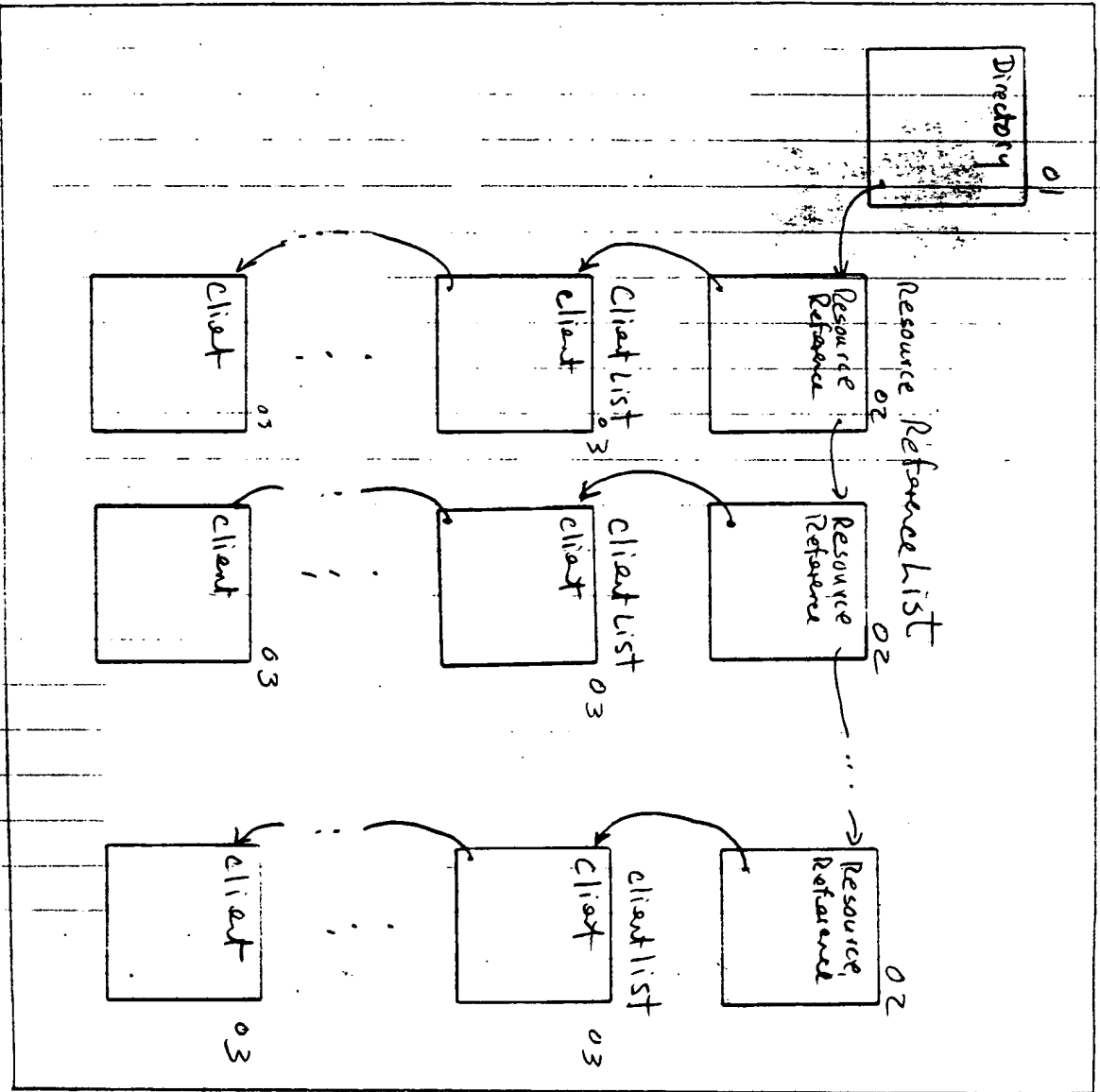


FIG. 2C



3

Resource Manager

00

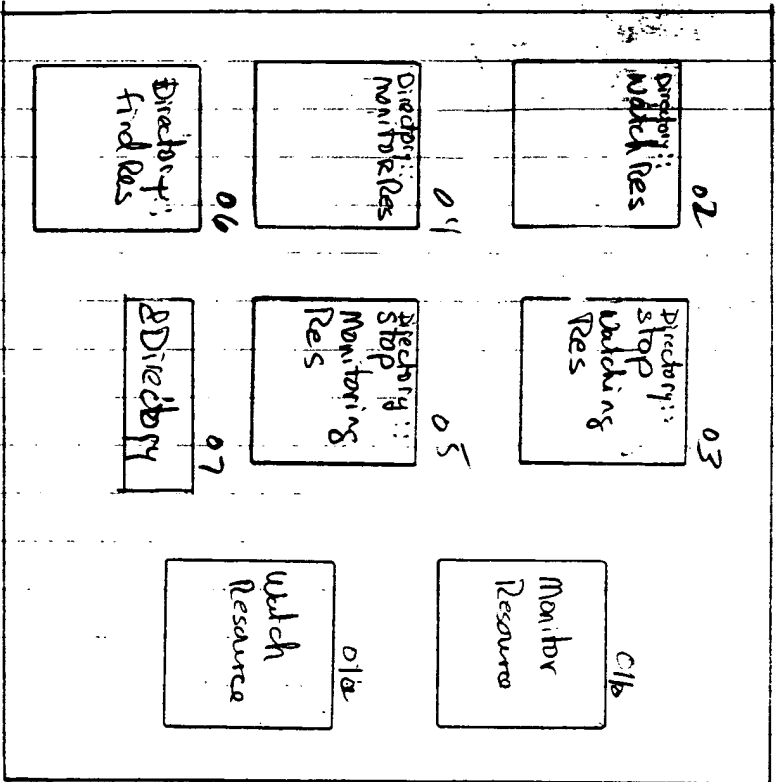


Fig 4

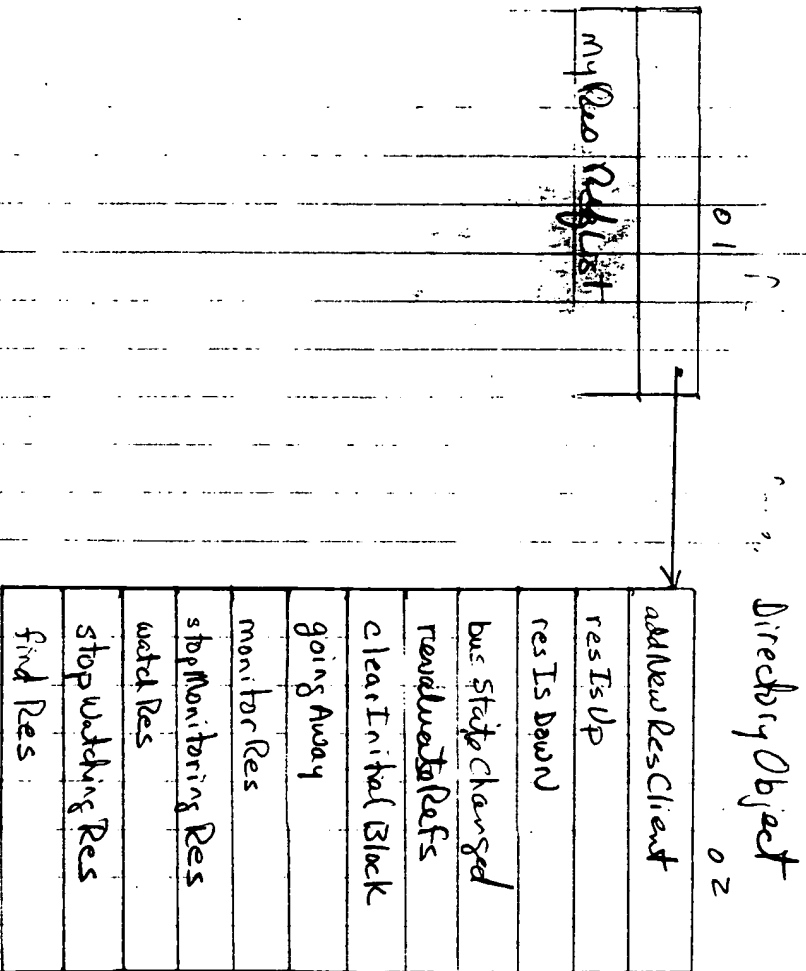


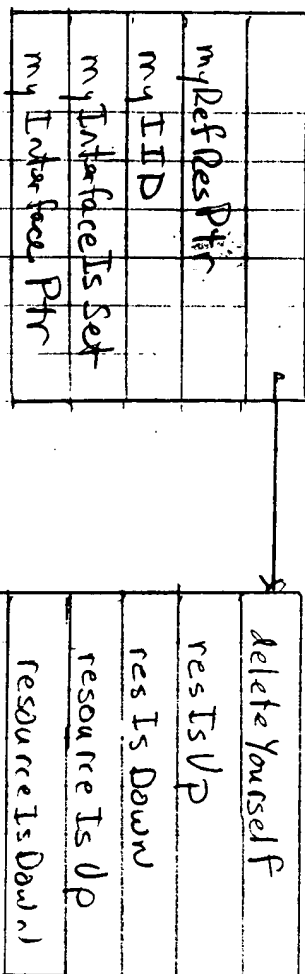
Fig 5

myClientList
myResName
myResPtr
myResCreatedTime
myQueue
myIsProcessing
myDirPtr
myResInstId

getRefCountedPtr
down
up
add
init
deleteYourself
goingAway
clearClients
processEventsAndFreeLock
sendEventAndProcess
processResIsUpMsg
processResIsDownMsg
processResInitMsg
tellClientsResIsUp
tellClientsResIsDown
processClients

File 6

Client Object



7-8

[illegible]

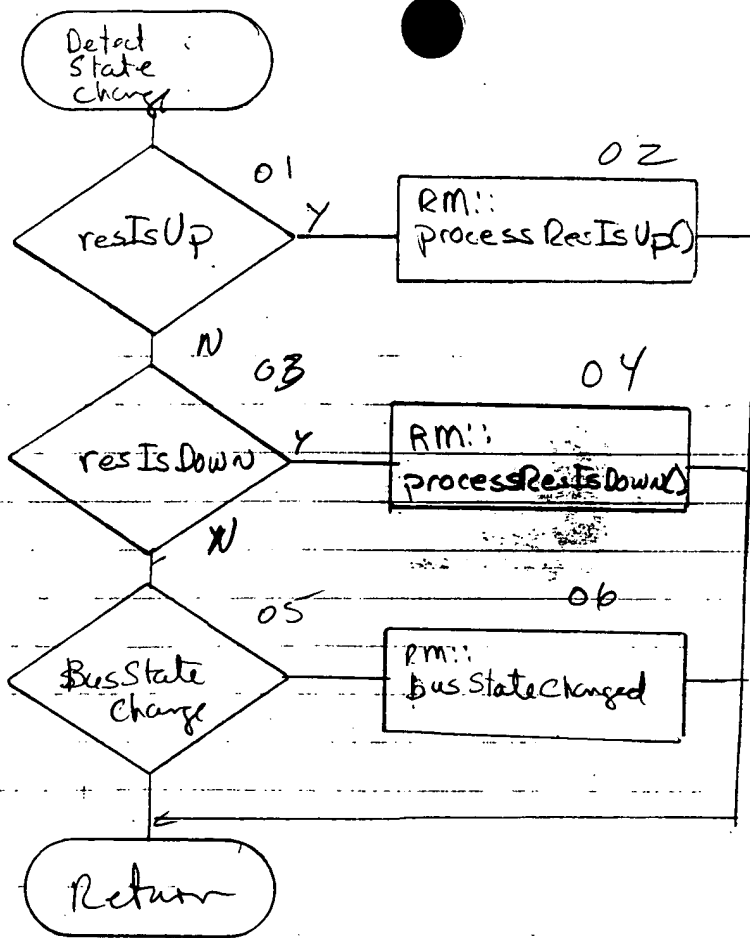


Fig 8

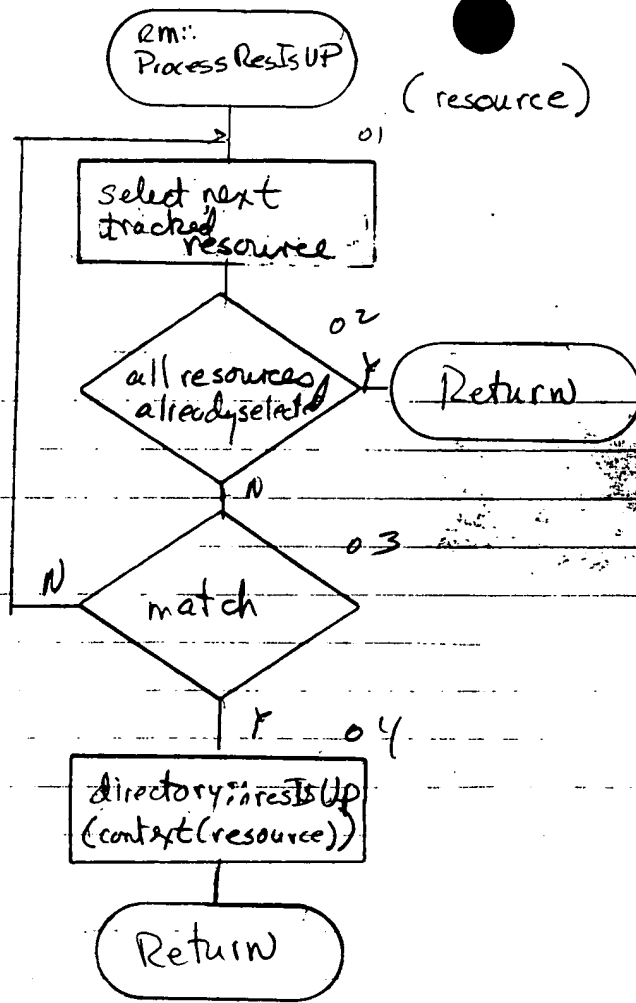


Fig 9

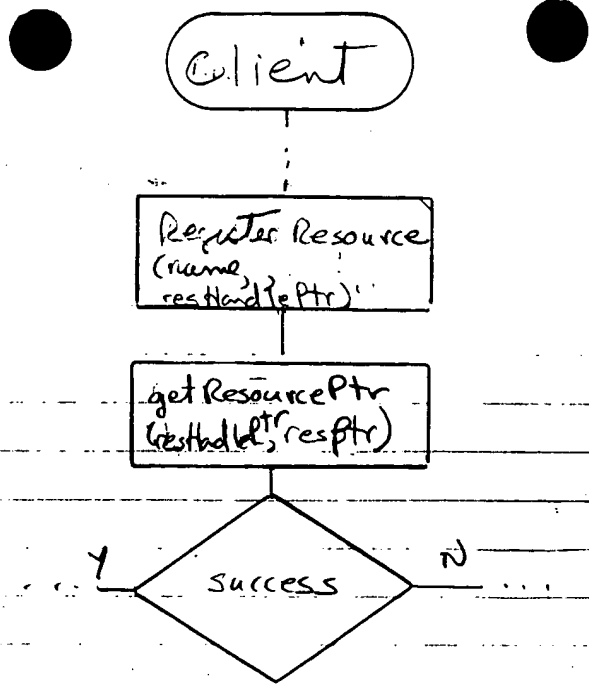


Fig 10

Register
resource

...tName
resHandlePtr

01
client
new client(this)

02
resHandlePtr =
get handle
(client)

03
Directory →
addNewResClient
(resInst, client)

Return

Figure 11

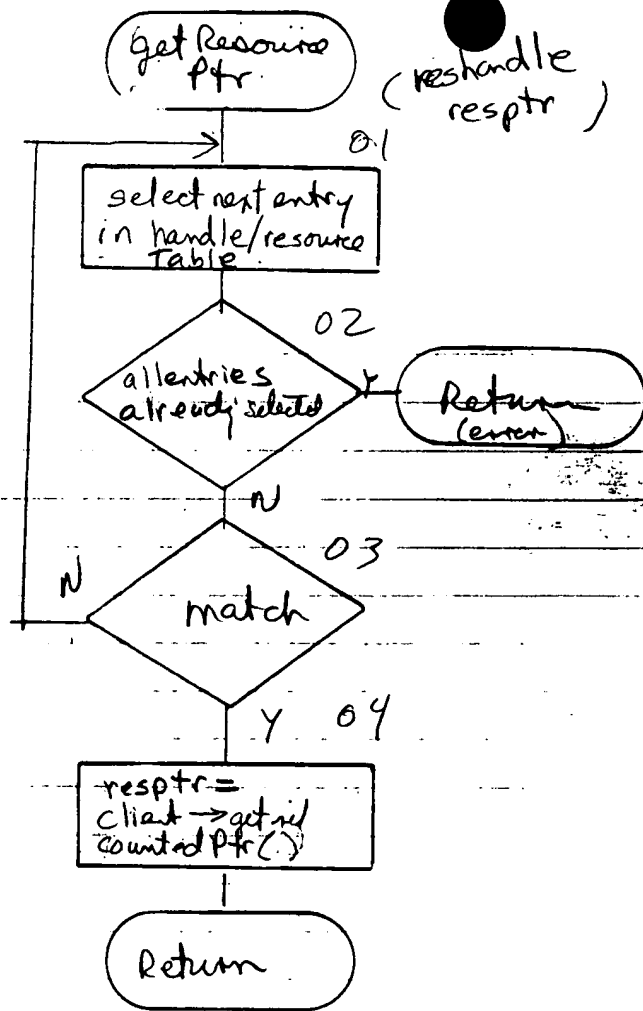


Fig 12

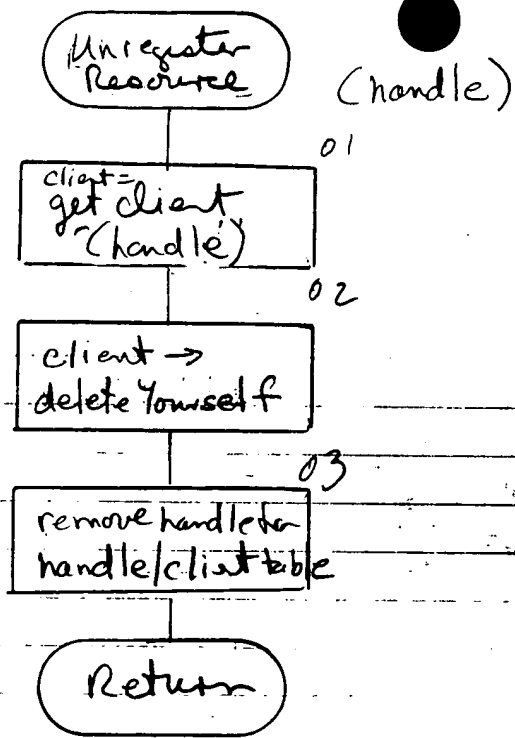


Fig 13

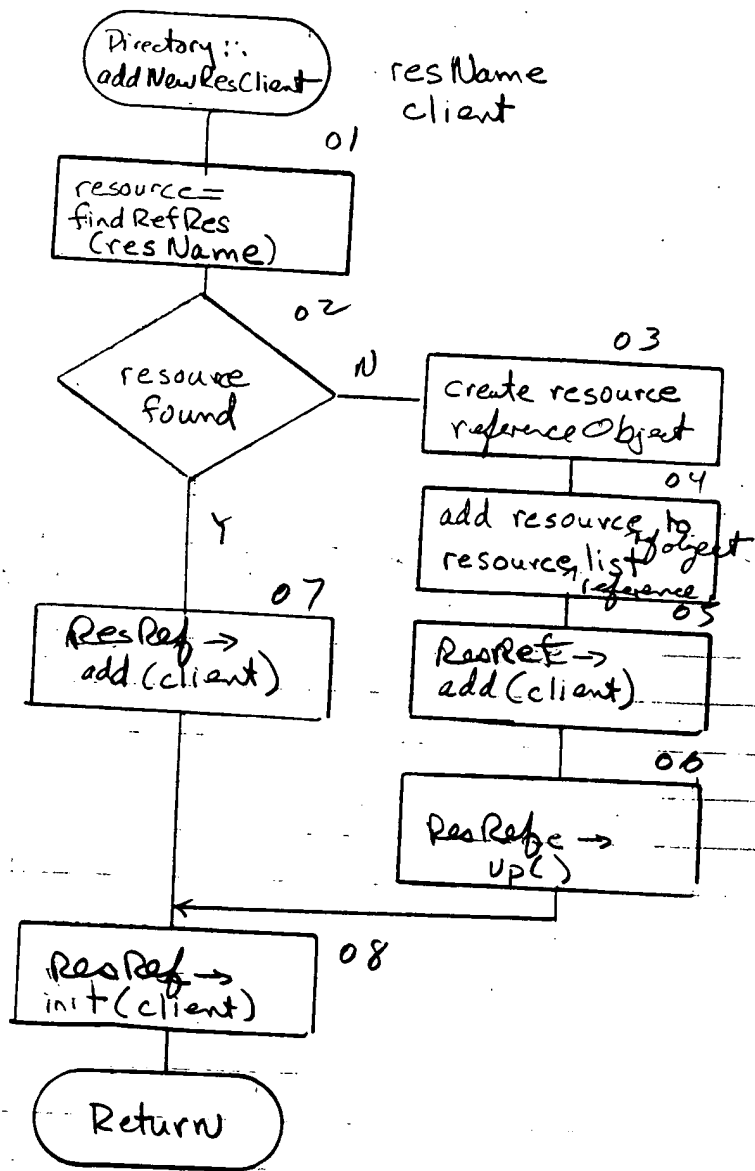


Fig 14

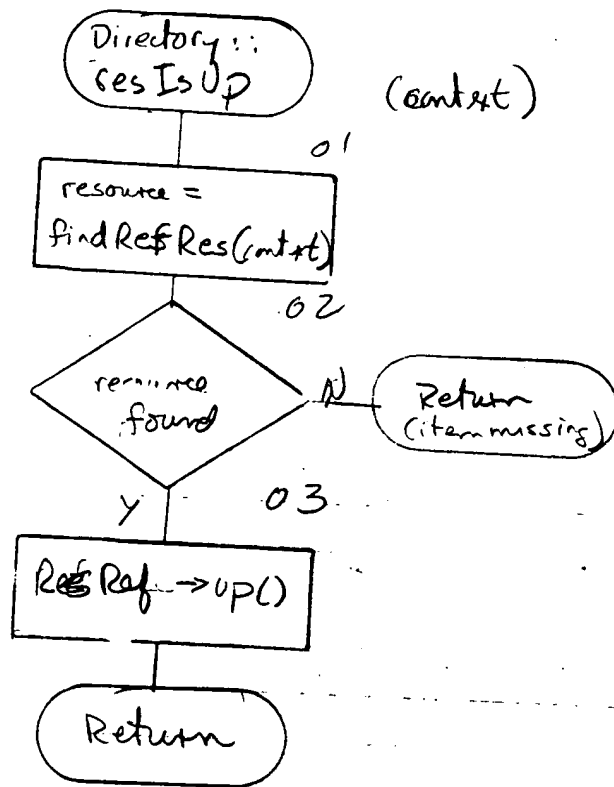


Fig 15

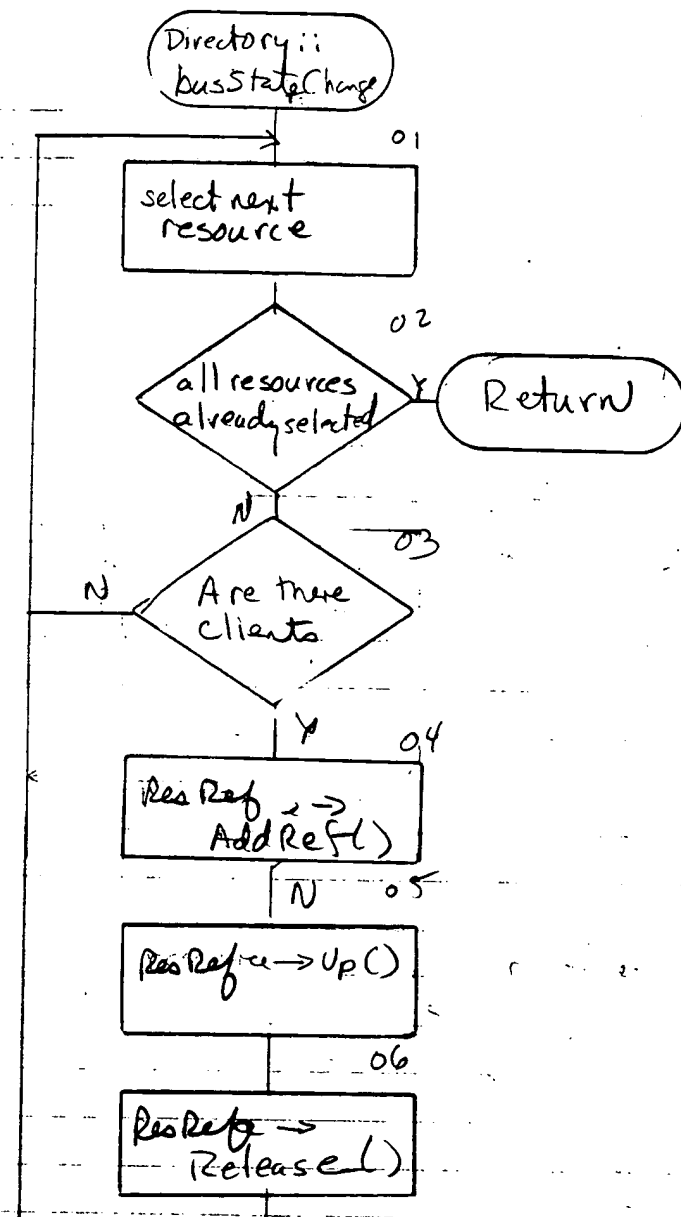


Fig 16

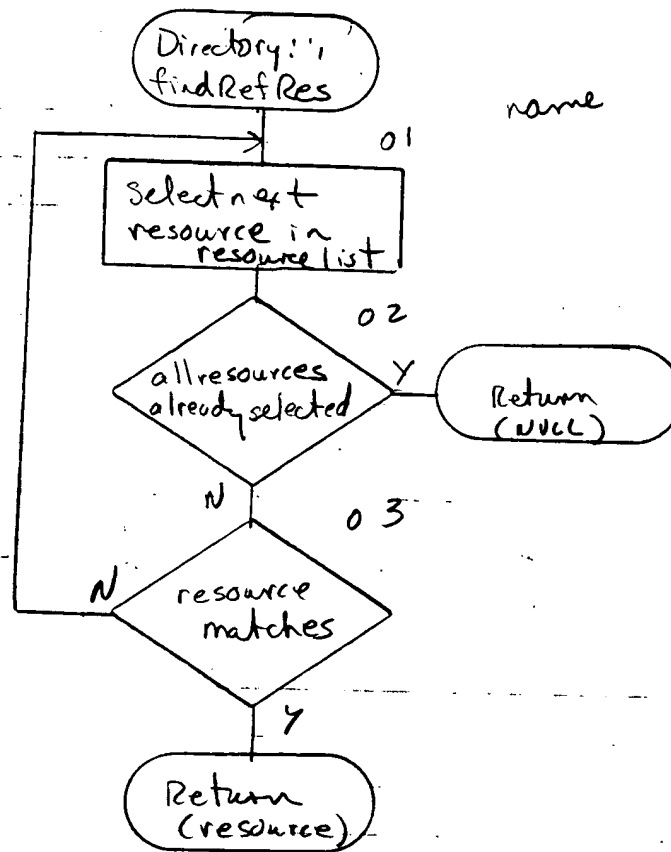


Fig 17

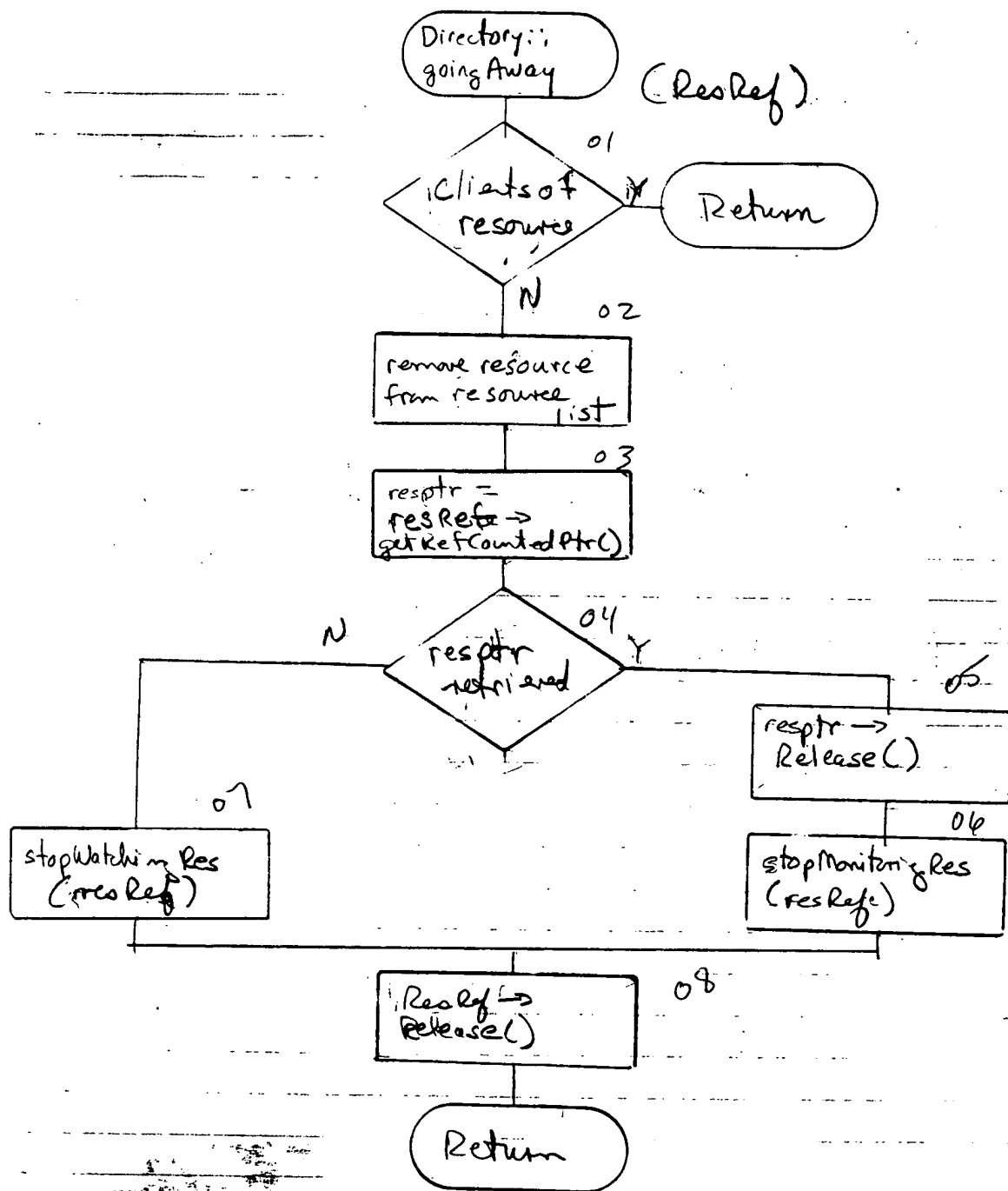


Figure 18

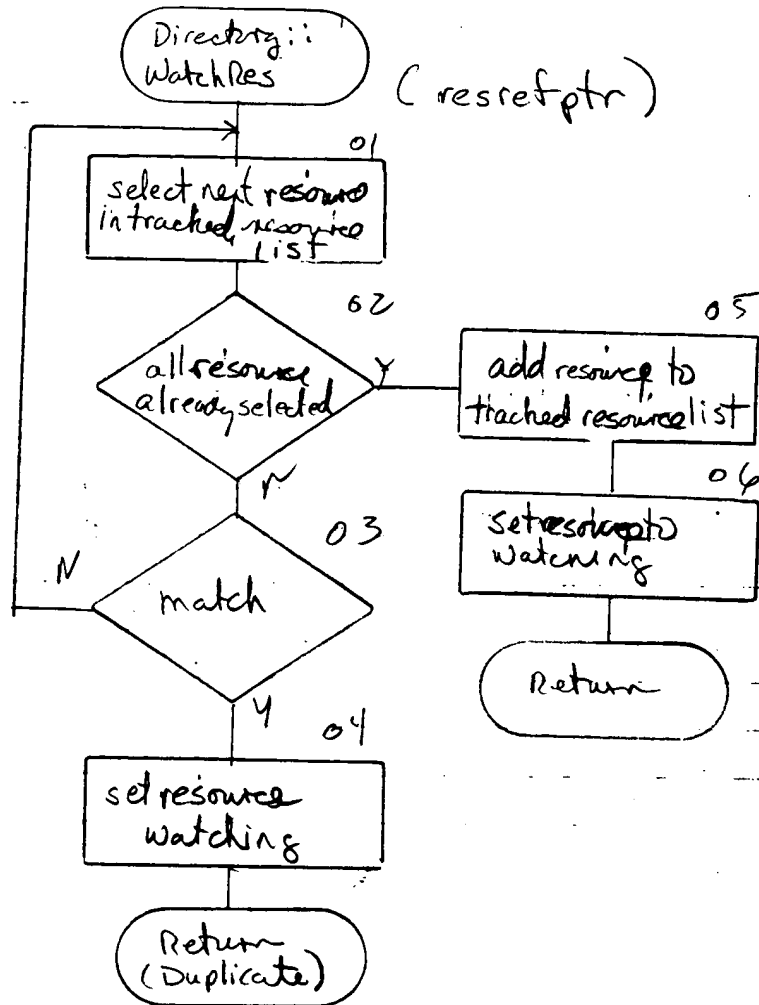


Fig 19

ResourceRef::
sendEventAnd
Process

event
param

01

put event +
param on queue

02

Processing

Y

Return

N

03

Processing =
True

04

processEventsAnd
Free lock()

Return

Fig 20

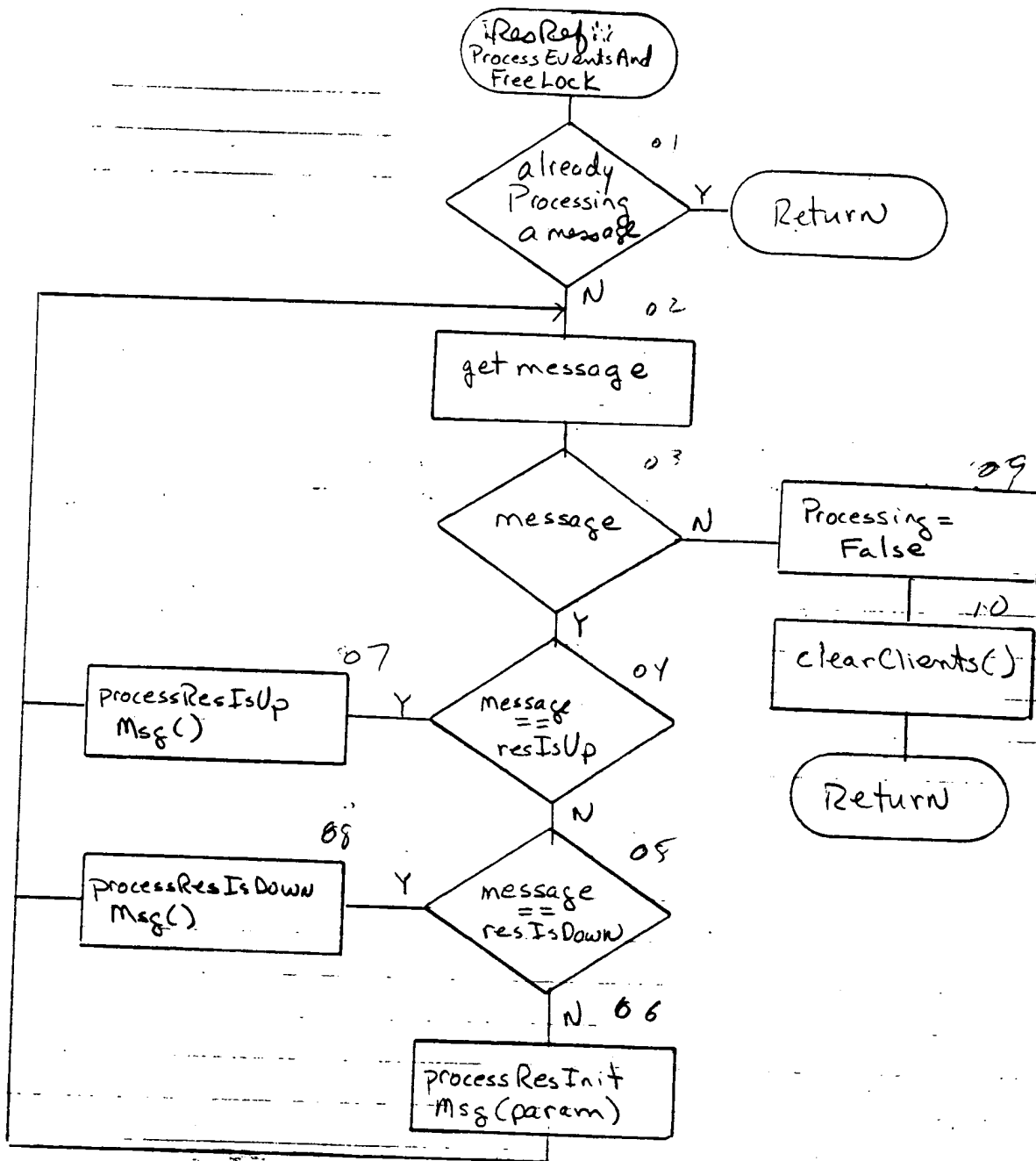


Fig 2/

ResRef::
Init

client

o/

SendEventAndProcess
(resInit, client)

Return

Fig 22

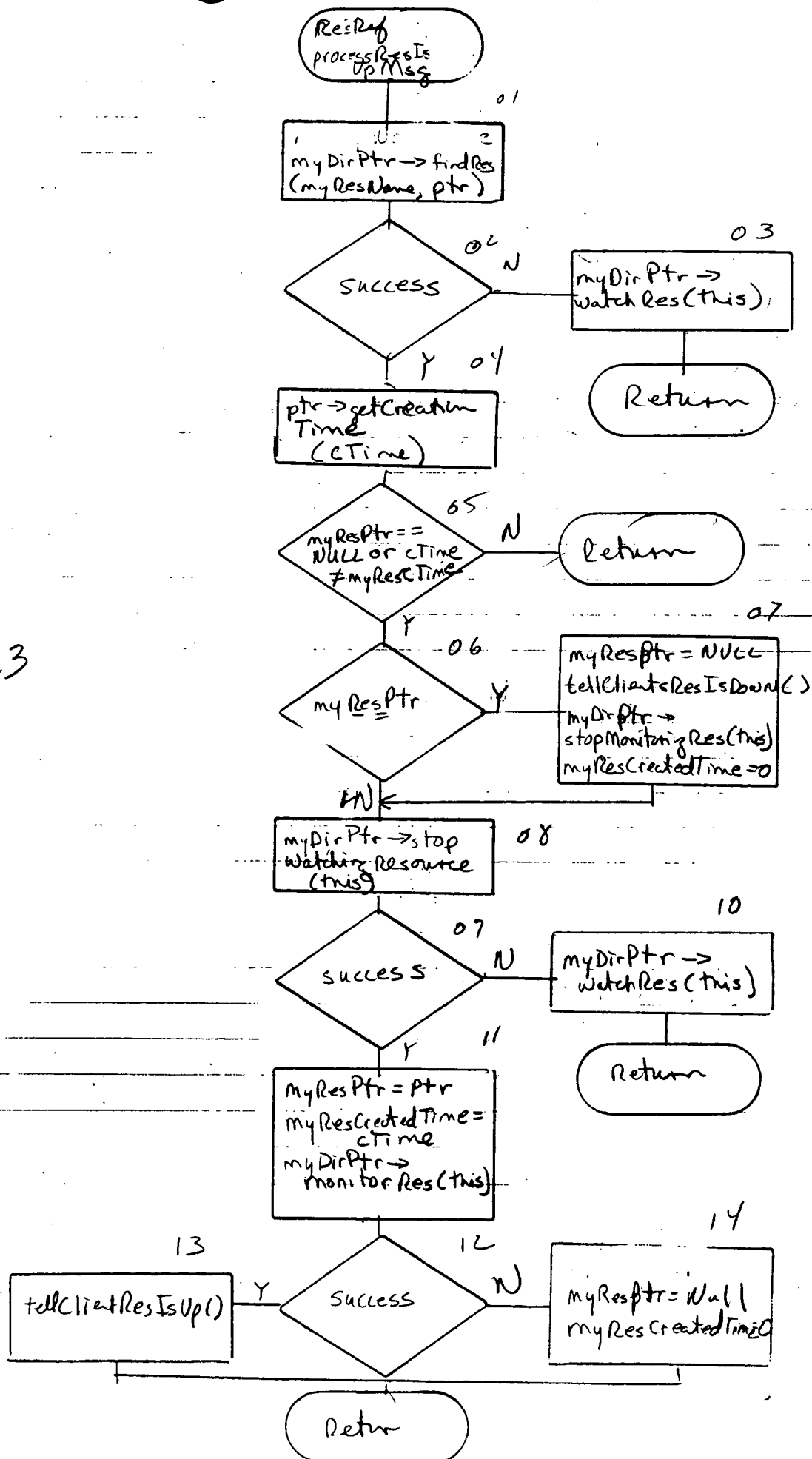
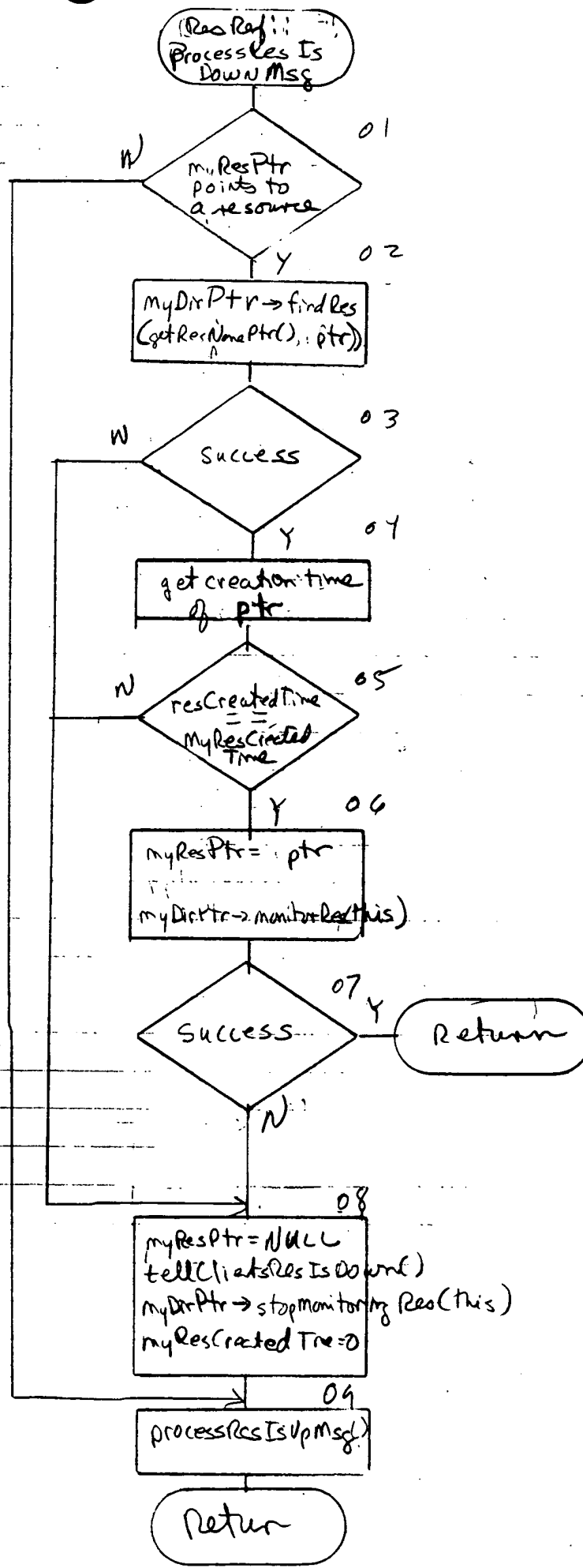


Fig 24



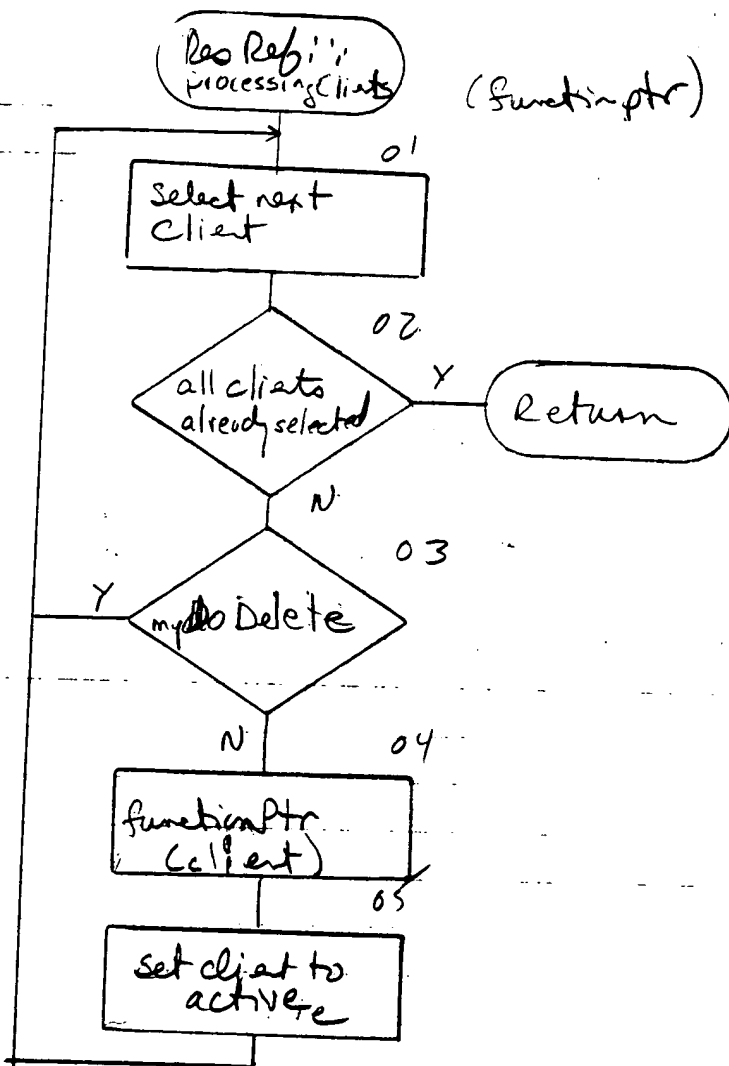


Fig 25

Res Ref!!!
UP

01

Send E Jout And
Process(res Is Up)

Return

Fig 24

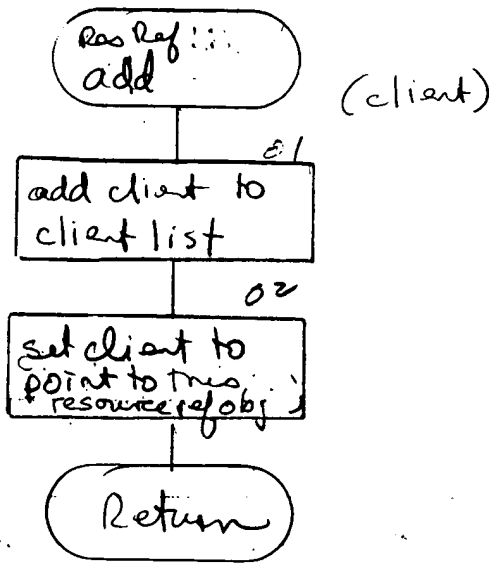


Fig 27

DesRef;;
going away (clist)

01

AddRef()

02

remove clist
from clist list

03

myDirPtr →
goingAway (this)

04

Release()

Return

Fig 28

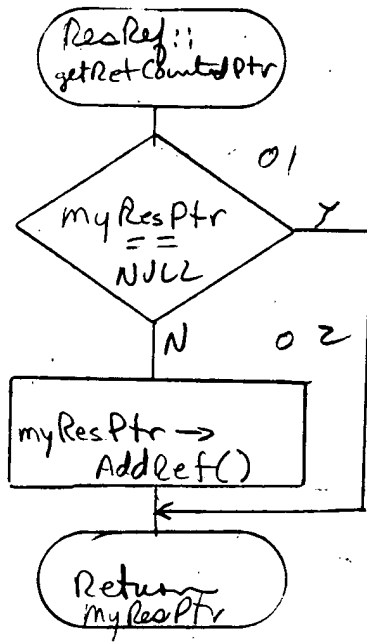


Fig 29.

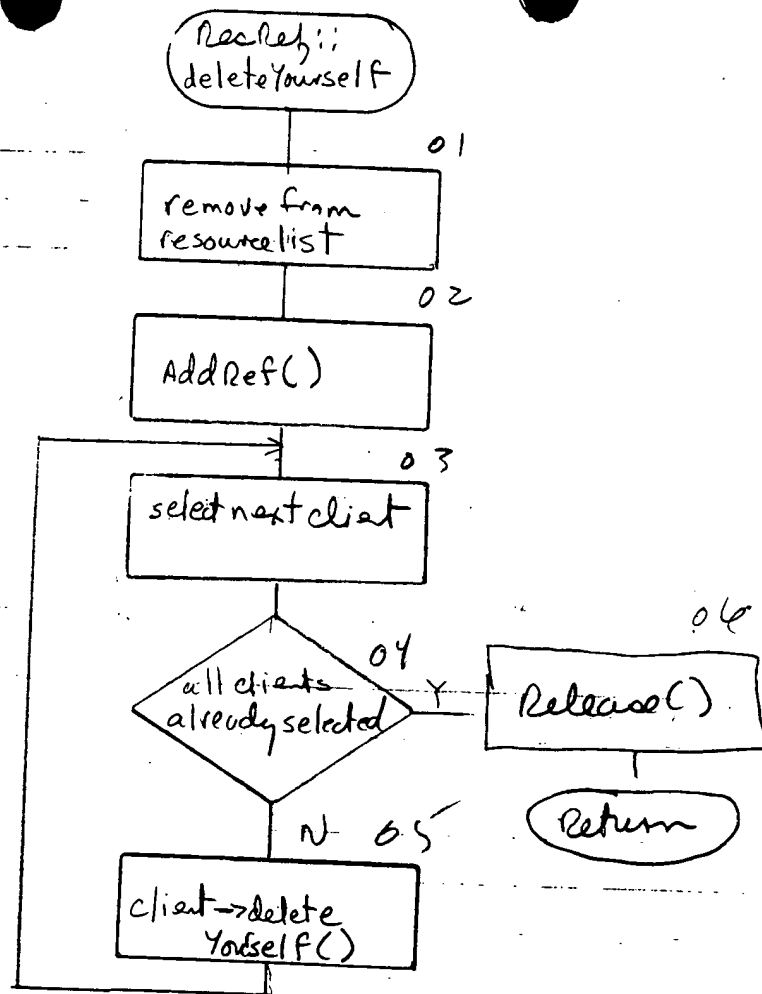


Fig 30

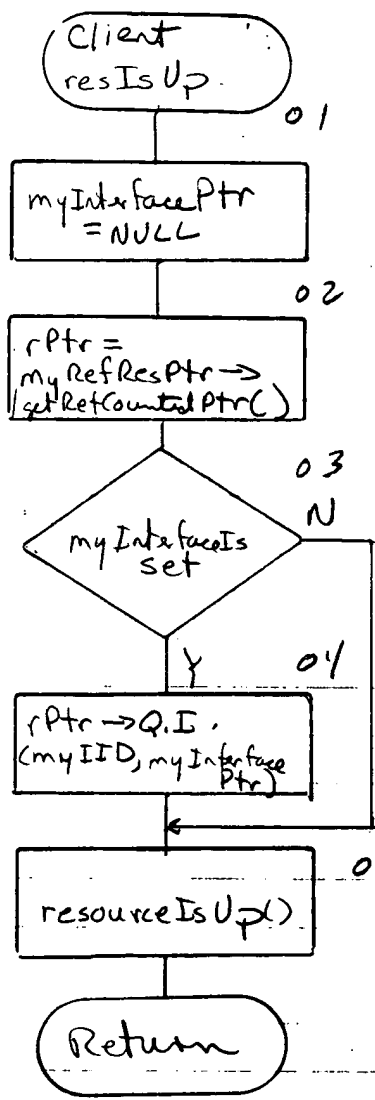


Fig 31

Client!!
res Is Down

01

myInterface Ptr
= NULL

02

resourceIsDown()

Return

Fig 32

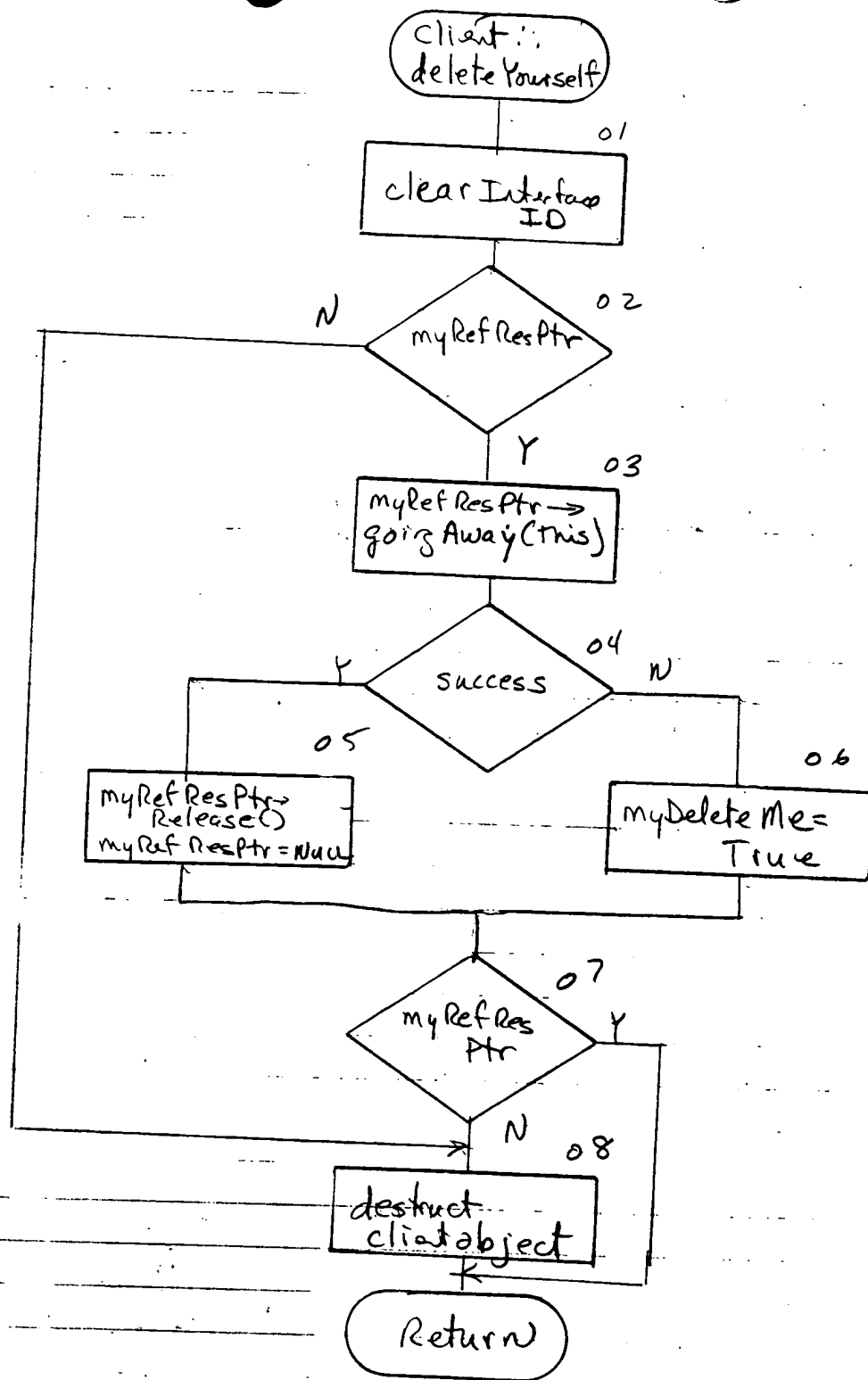
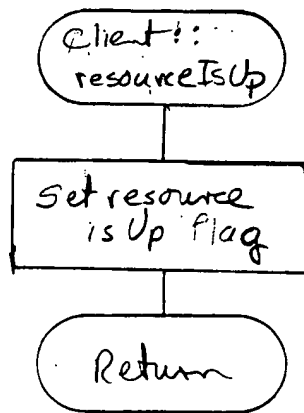


Figure 33



34

RM::ResourceUp

(res)

01

BMGR::AHash
(res)

02

update
local Res Directory

Return

Fig 35

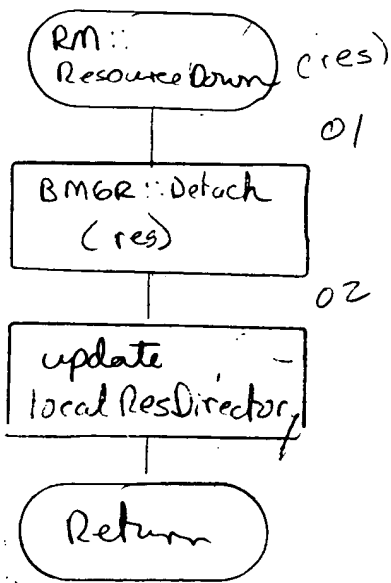


Fig 36

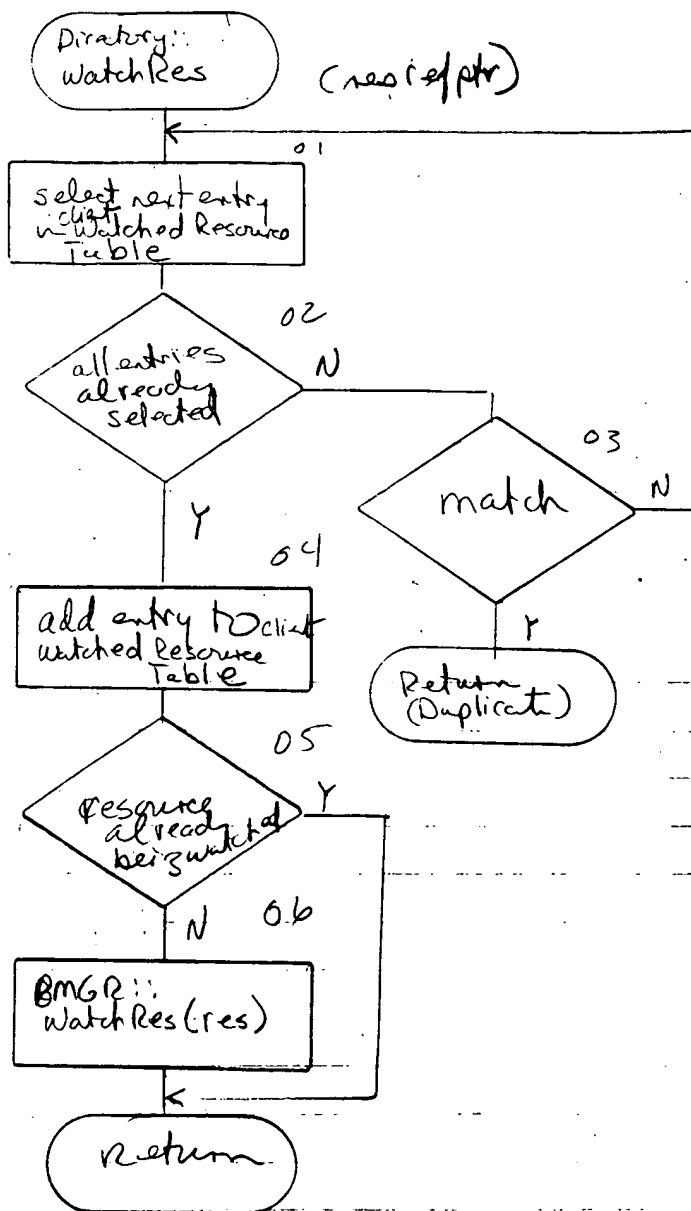


Fig 37

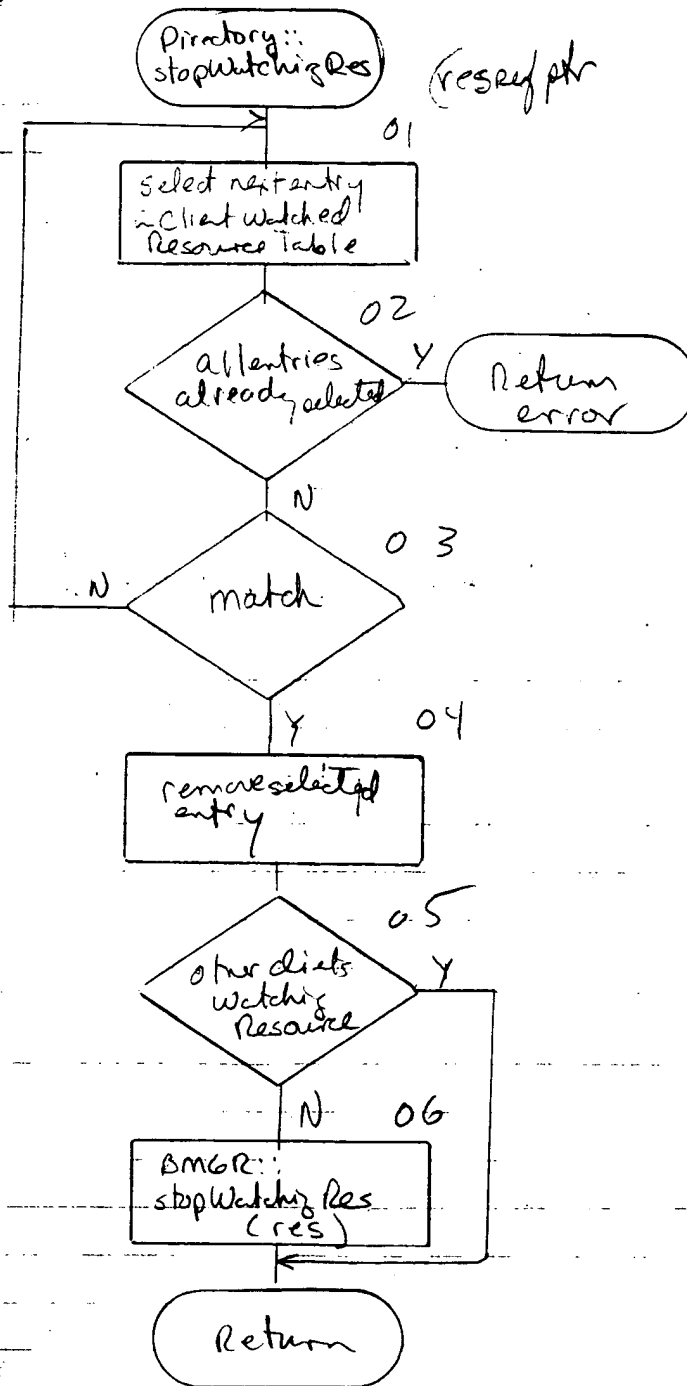


Fig 38

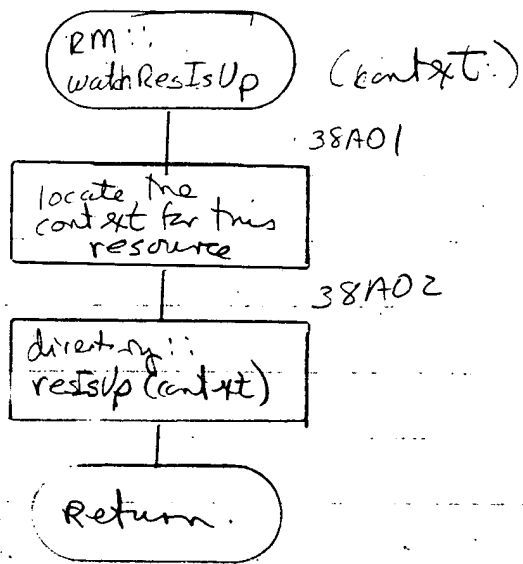


Figure 38A

RM:
Client Process Is
Down

01

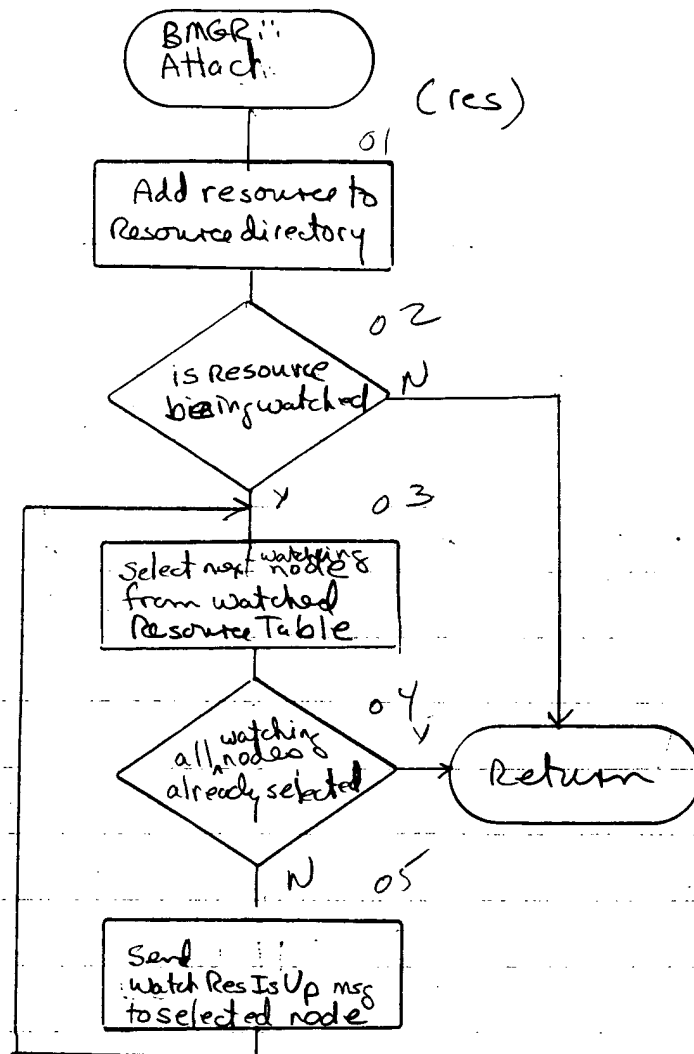
call BMGR::Detach
for each resource
of process

02

call directory::stop
watching res for
all di

Return

Fig 39



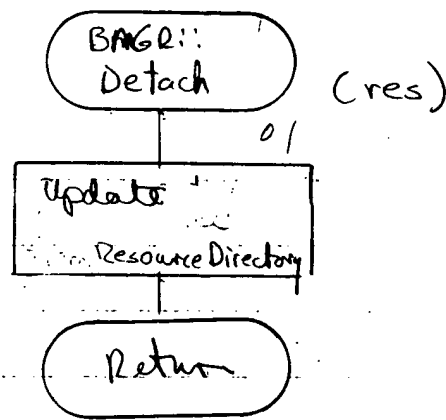


Fig 41

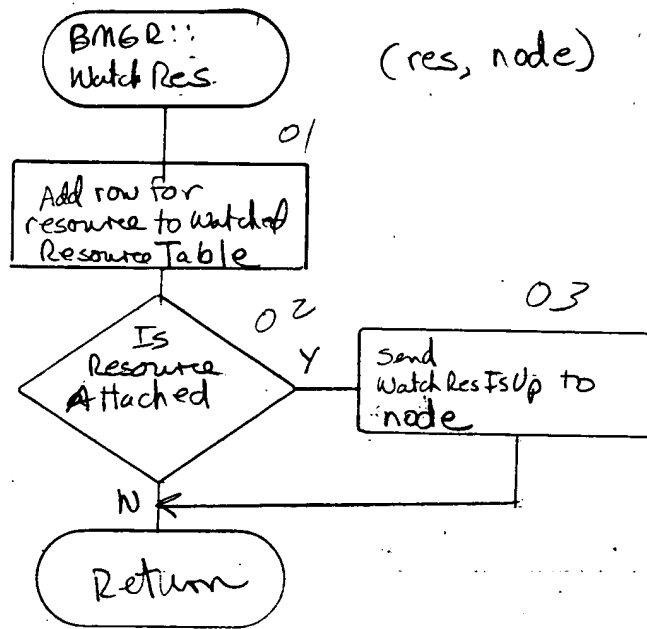


Fig 42

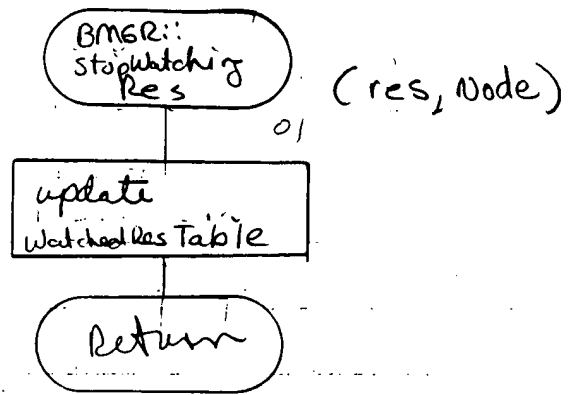
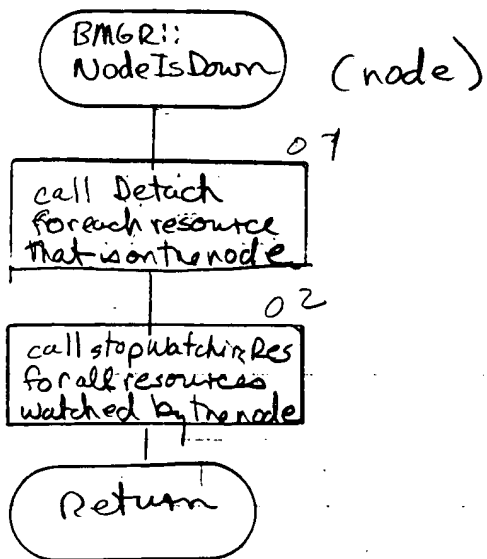


Fig 43



(node)

07

call Detach
for each resource
that is on the node

02

call stopwatchingRes
for all resources
watched by the node

Return

44

Directory::
MonitorRes (res)

01

Use passed resource
ptr to identify node

02

entry for
node in
connect table

Y

N

0

Server::
ConnectClient
(client ptr,
client cntxt,
server cntxt)

04

error

Y

05

Process Clients
Down

N

06

add entry to
client connect
Table

07

signal to
start sending
Client ISACTIVE

04

Server::
monitorRes
(resource)

Return

Fig 45

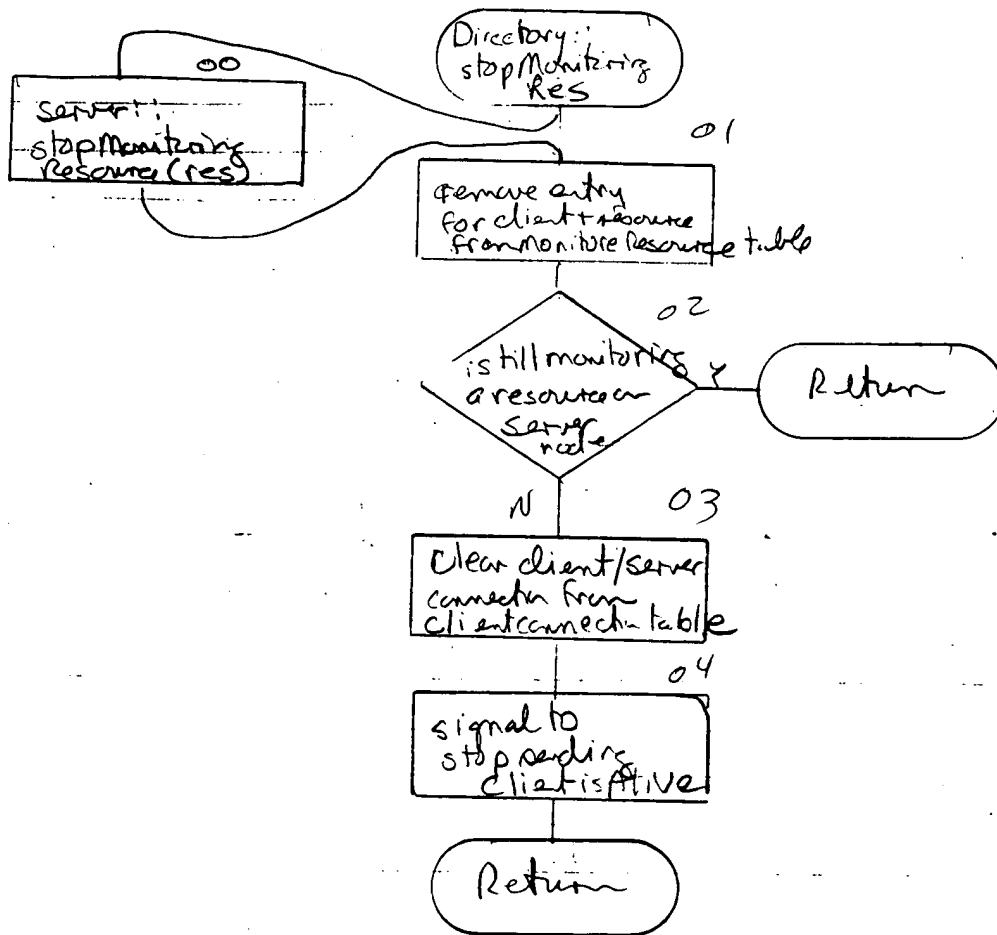


Fig 46

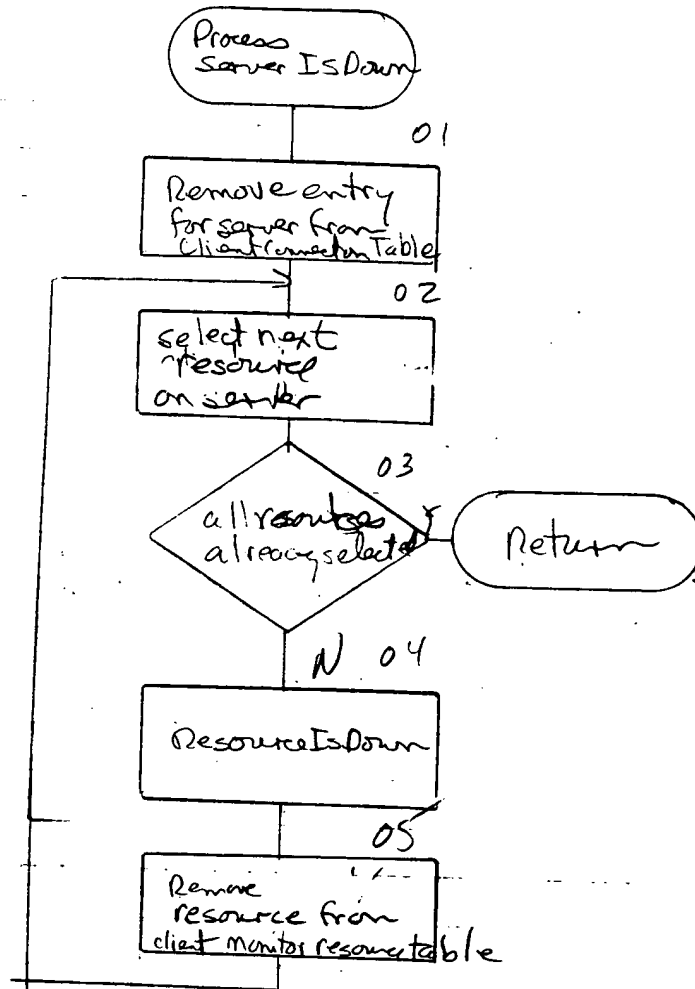


Fig 46A

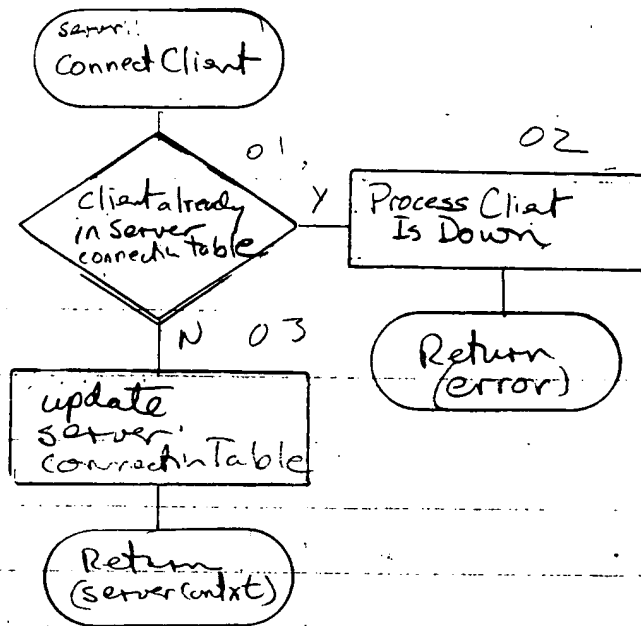
RM:
Res Is Down

01

Directory:
Resource Is Down

Return

Fig 47



48

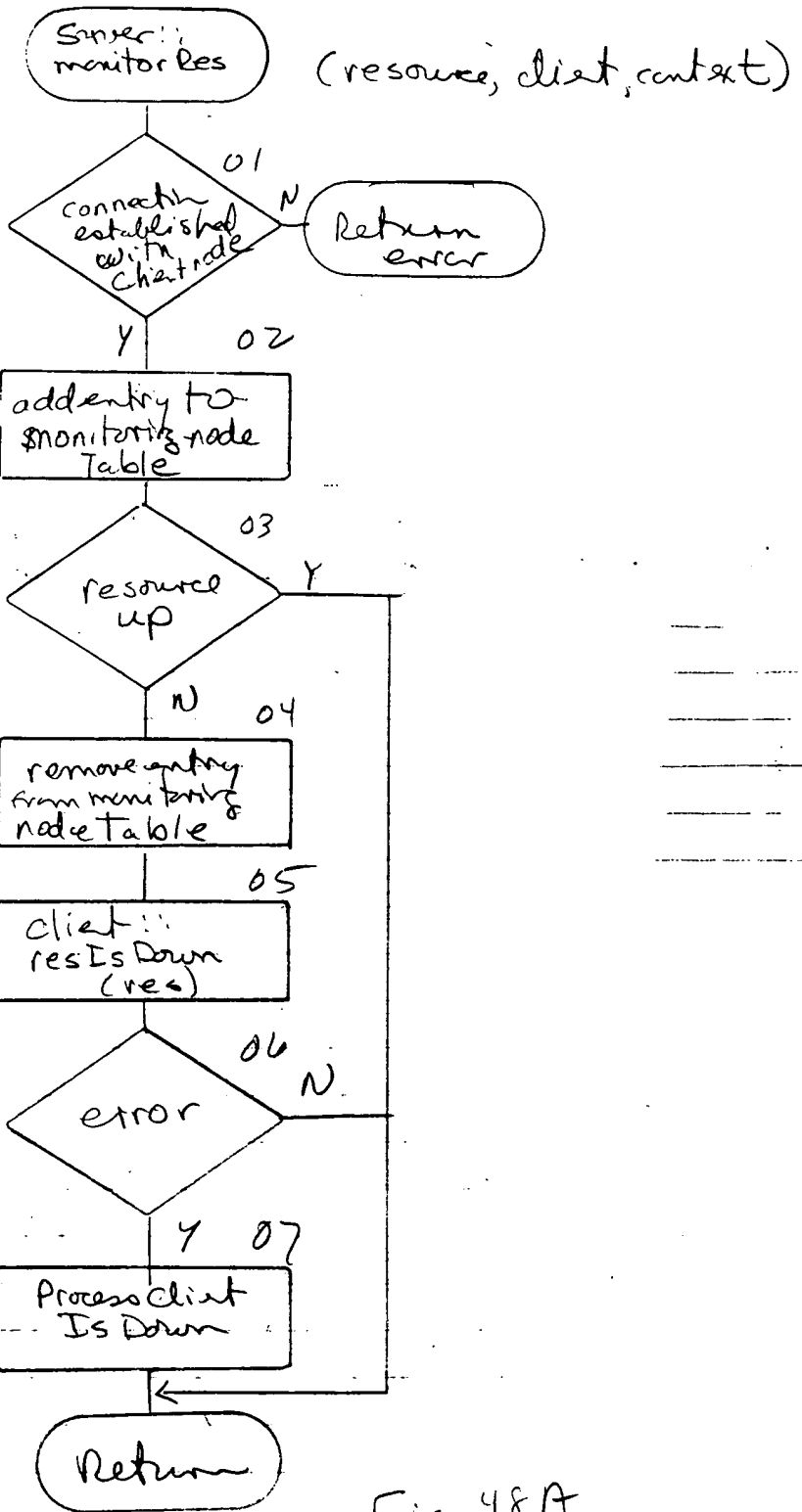


Fig 48A

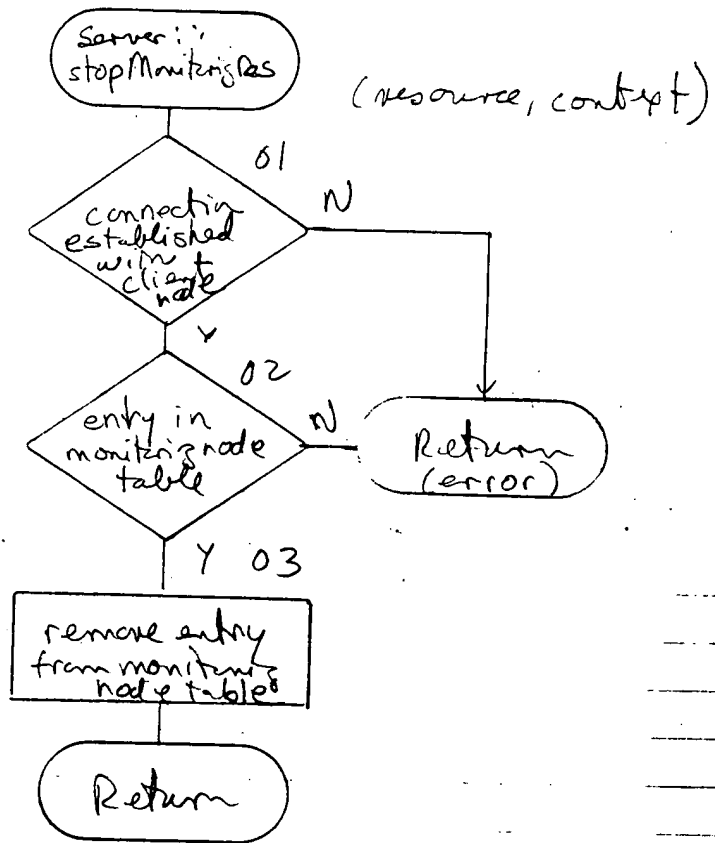
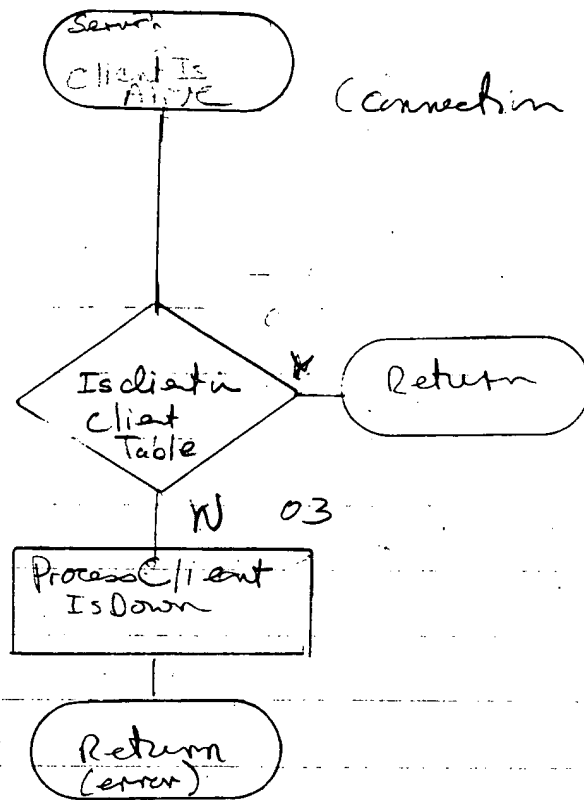
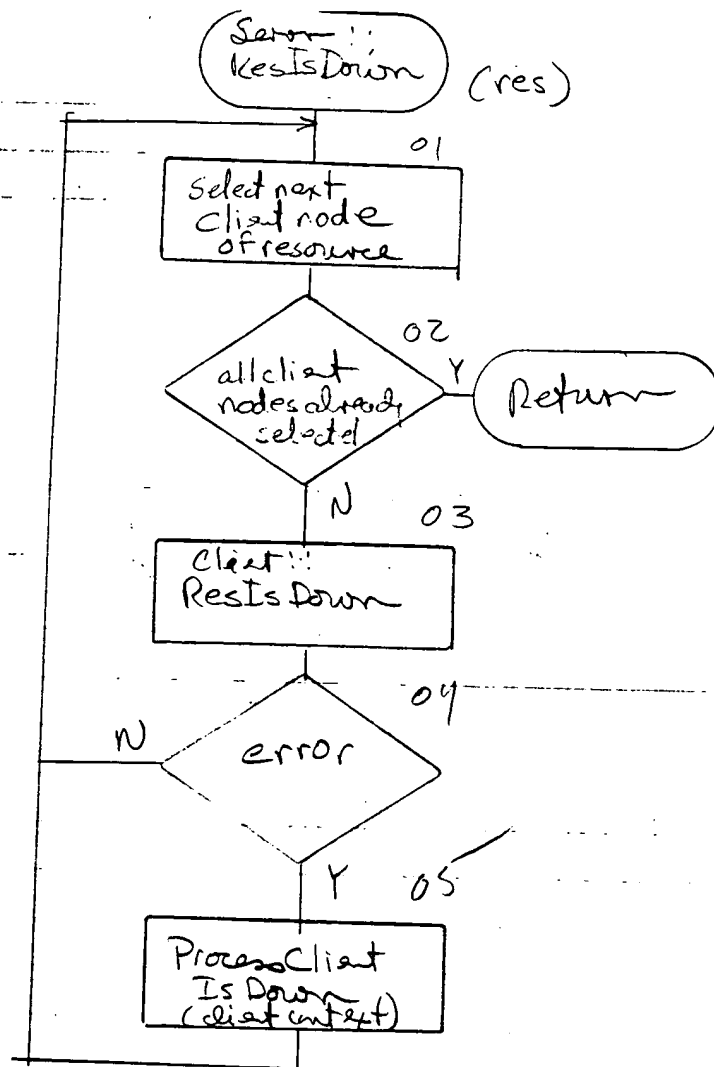


Figure 48B





Process
Client Is Down

(client context)

02

remove entry for
client from
ServerConnection Table

Return

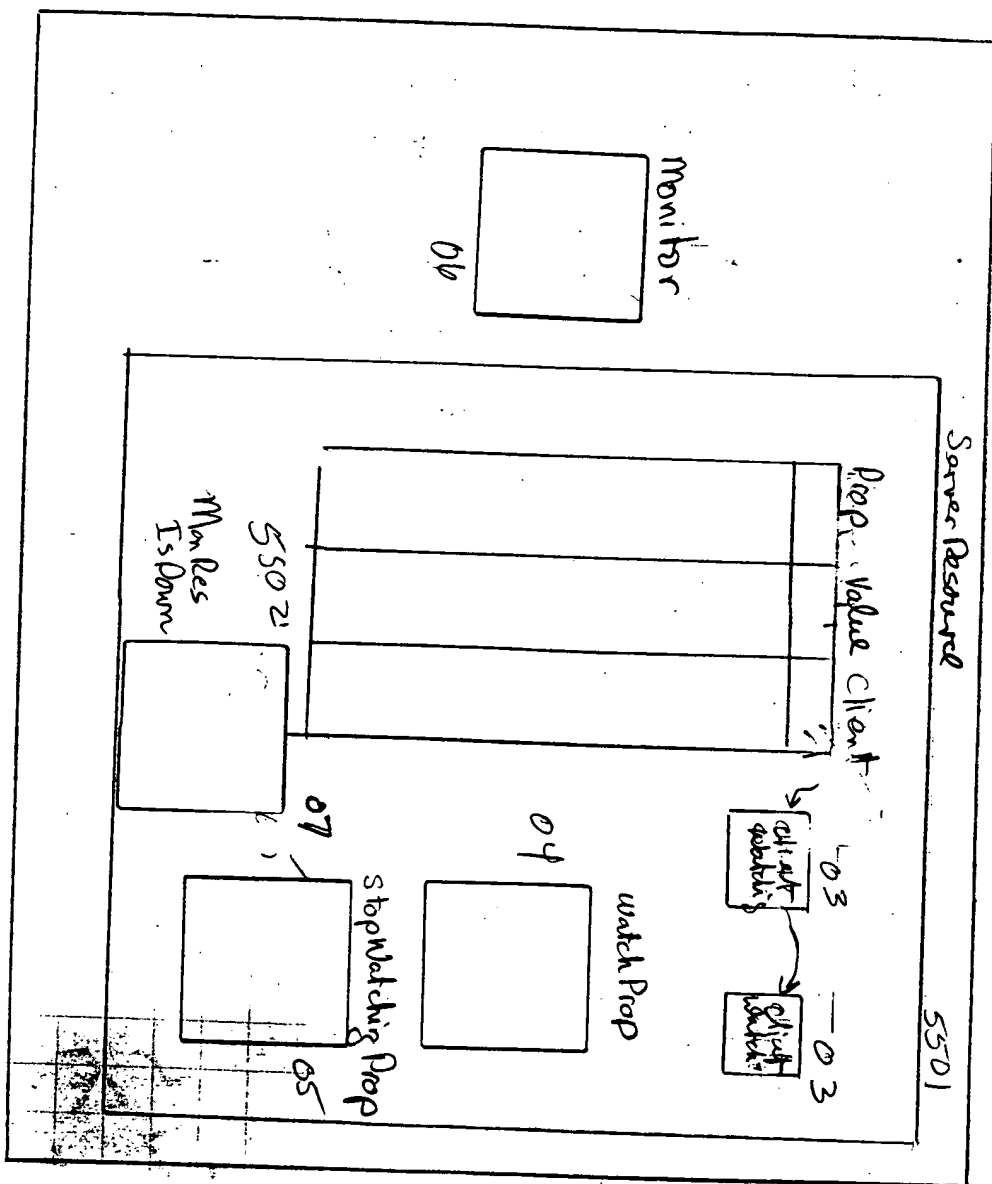
52

$$\frac{2x^2 - 3x + 1}{x^2 - 2x + 1}$$


ॐ नमो भगवते वासुदेवाय ।

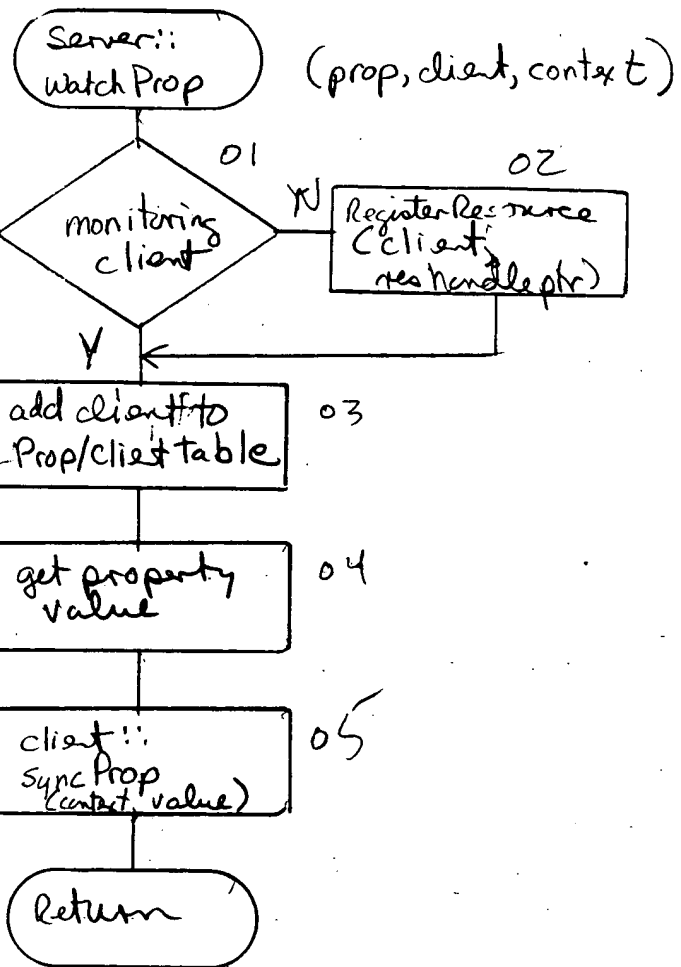
Server Resource

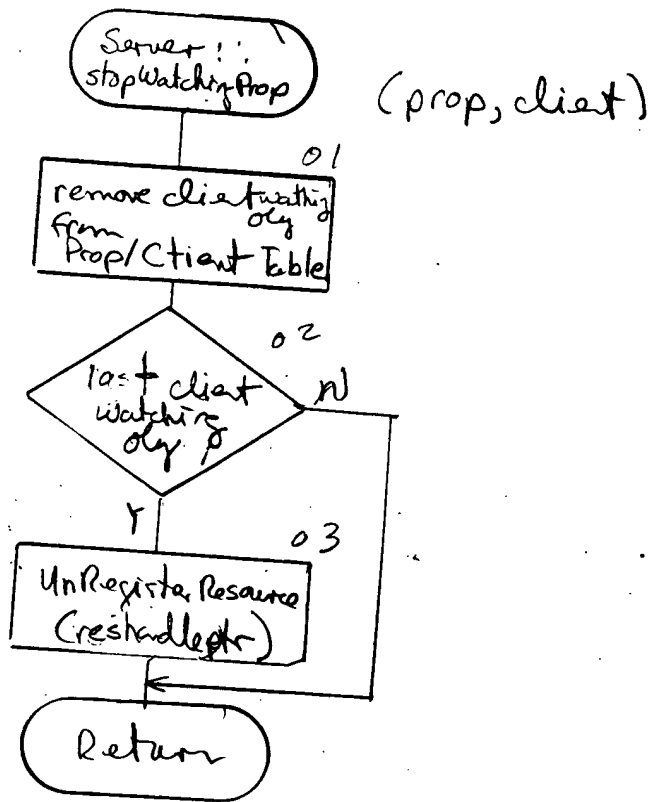
5501



55

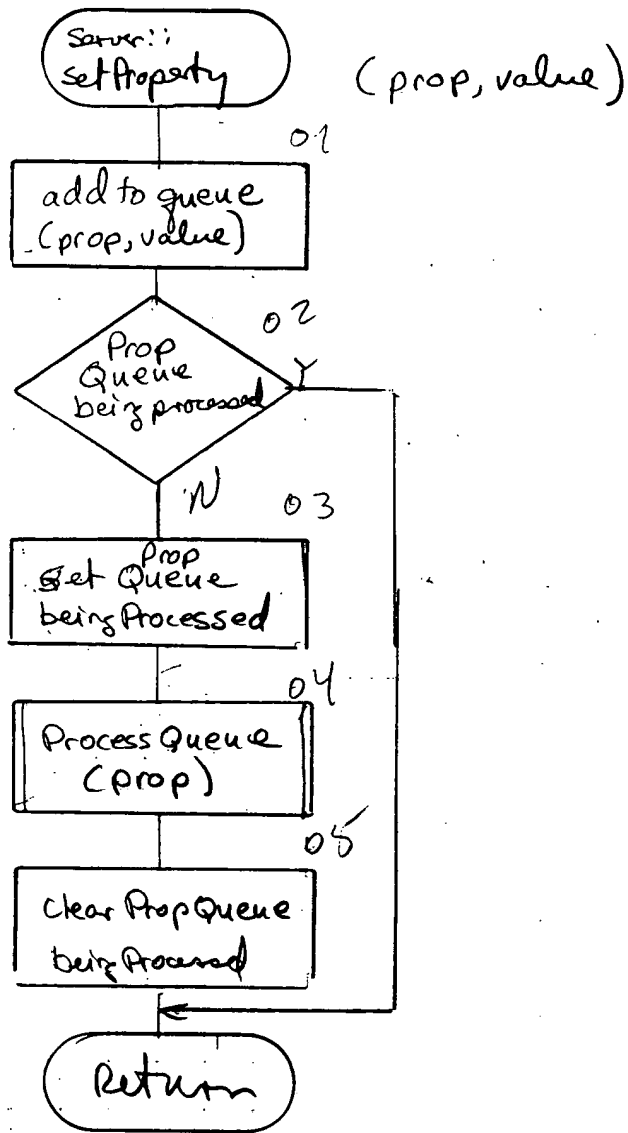
[illegible]



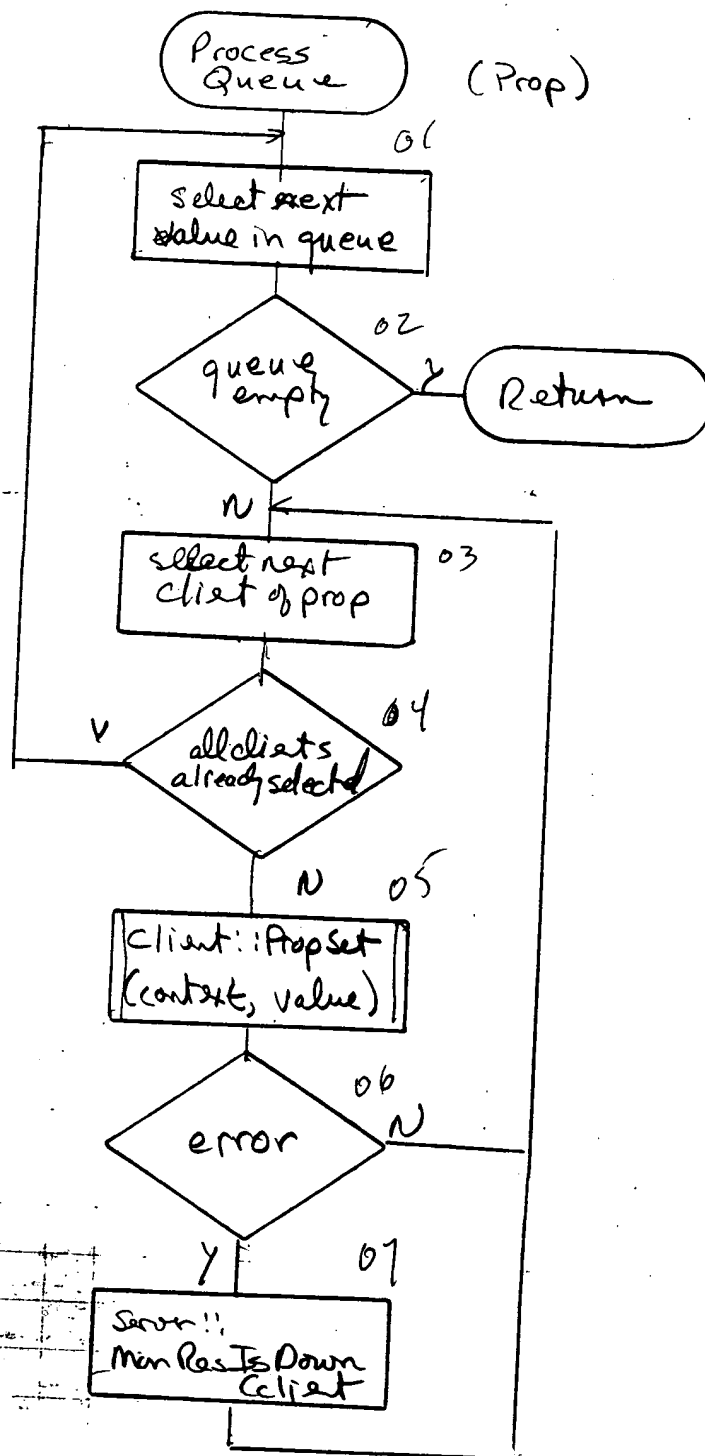


Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

66000 63000 60000



59



Register
Watch

(Server, prop, client)

01
already watch's
property

Y

N 02

Create Context

03

server::watchProp
(prop, context)

04

add client to
reg

05

add entry to
context/prop table

06

add property to
to

Return

61

Client::PropSet

(Context, value)

get client object
from CNTX/Client Table

select next client
in list

all clients
already
selected

Return

Client::
valueSet(value)

62

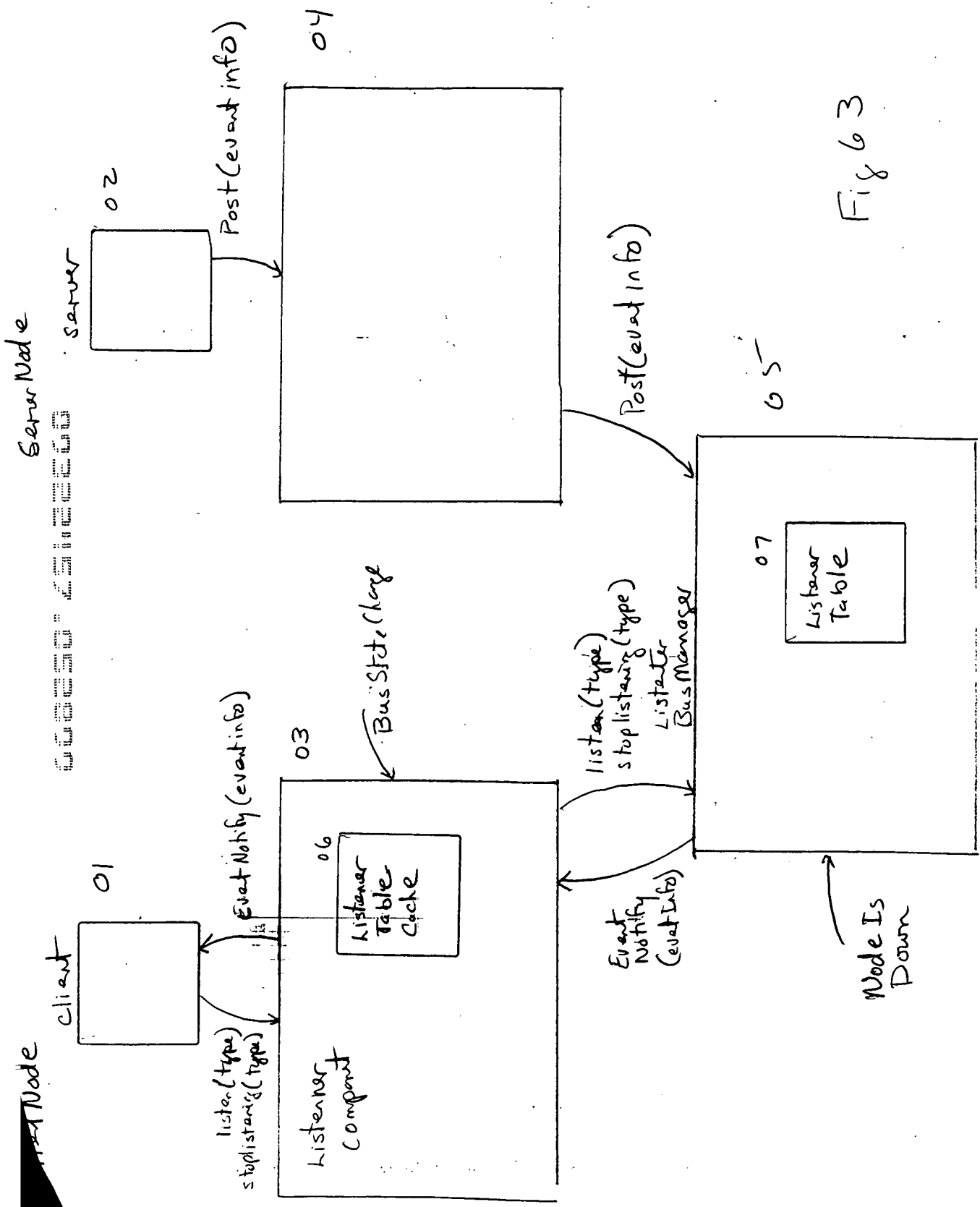


Fig 63